4131586-Rev B

JACOBSEN
A Textron Company

Technical Manual

Greens King 500A Series
InCommand™

63281 – 18” 11 Blade Reel
63287 – 18” 15 Blade Reel
63282 – 22” 11 Blade Reel
63288 – 22” 15 Blade Reel
63285 – 26” 7 Blade Reel, Tee & Collar

⚠ WARNING

If incorrectly used, this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to set up, operate, adjust, or service the machine.

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A Textron Company

When Performance Matters.™

GB

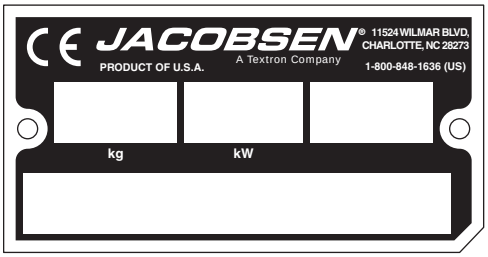
FOREWORD

This manual contains safety, operating, adjustment, maintenance, troubleshooting instructions and parts list for your new Jacobsen machine. This manual should be stored with the equipment for reference during operation.

Before you operate your machine, you and each operator you employ should read the manual carefully in its entirety. By following the safety, operating and maintenance instructions, you will prolong the life of your equipment and maintain its maximum efficiency.

If additional information is needed, contact your Jacobsen Dealer.

The serial plate is located on the rear crossbar of the frame. Jacobsen recommends you record these numbers below for easy reference.



Suggested Stocking Guide

To Keep your Equipment fully operational and productive, Jacobsen suggests you maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids.

To order any of the following material:

1. Write your full name and complete address on your order form.
2. Explain where and how to make shipment:
   - ❑ UPS
   - ❑ Regular Mail
   - ❑ Overnight
   - ❑ 2nd Day
3. Order by the quantity desired, the part number, and the description of the part.
4. Send or bring the order to your authorized Jacobsen Dealer.

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	2810713	Engine to Reel Belt		2811363	Reel to Reducer Belt
	2811071	Reducer to Traction Belt		5000141	26” Heavy Section Bedknife
	5000098	18” Low Profile Bedknife		5002888	18” Super Tournament Bedknife
	503478	22” Low Profile Bedknife		503477	22” High Profile Bedknife
	5002887	22” Super Tournament Bedknife		164056	Brake Band

Service Support Material

Qty.	Part No.	Description
	4131586	Technical Manual
	4191633	Operator Training Video

Qty.	Part No.	Description
	4171651	Service Manual

These are the original instructions verified by Jacobsen, A Textron Company.

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Proposition 65 Warning

This product contains or emits chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

LITHO IN U.S.A. 9-2013

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> Change from previous revision

1 SAFETY

1.1 OPERATING SAFETY

⚠ WARNING

EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.
Familiarize yourself with the location and proper use of all controls. Inexperienced operator's should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern, and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Engine manual, accessories, and attachments). If the operator can not read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions, or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands, and feet. Long hair, loose clothing, or jewelry may get tangled in moving parts. Operate the machine only in daylight or in good artificial light.
6. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Jacobsen.
7. Stay alert for holes in the terrain and other hidden hazards.
8. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.) Enter a new area cautiously. Stay alert for hidden hazards.
9. Do not carry passengers. Keep bystanders and pets a safe distance away.
10. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent, and is responsible for injuries inflicted to themselves, to bystanders, and damage to property.
11. Never operate equipment that is not in perfect working order, or is without decals, guards, shields, discharge deflectors, or other protective devices securely fastened in place.
12. Never disconnect or bypass any switch.
13. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.
14. Fuel is highly flammable, handle with care. **See Section 8.4**.
15. Keep the engine clean. Allow the engine to cool, close fuel shut off valve, and remove the spark plug wire from the spark plug before storing. Do not store unit near an open flame or flammable debris.
16. Place unit on a flat surface, disengage all drives, and engage parking brake before starting the engine.
17. Local regulations may restrict the age of the operator.
18. Operate the machine across the face of the slope (horizontally), not up and down the slope (vertically). Never operate on wet grass.
19. Always operate at speeds that allow you to have complete control of the machine. Be sure of your footing keep a firm hold on the handle, and walk. Never run when operating mower.
20. Before you clean, adjust, or repair this equipment, stop the engine, disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

This machine is to be operated and maintained as specified in this manual and is intended for the professional maintenance of specialized turf grasses. It is not intended for use on rough terrain or long grasses.

1.2 IMPORTANT SAFETY NOTES

This safety alert symbol is used to alert you to potential hazards.

DANGER - Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING - Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

NOTICE - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage. It may also be used to alert against unsafe practices.

For pictorial clarity, some illustrations in this manual may show shields, guards or plates open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place.

⚠ WARNING

The Operator Presence Control (OPC) on this machine will shut off the reel and traction drive if the operator releases the OPC bail.

To protect the operator and others from injury, never operate equipment with the OPC system disconnected or malfunctioning.

⚠ WARNING

1. Before leaving the operator's position for any reason:
   a. Disengage all drives.
   b. Engage parking brake.
   c. Stop engine.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Chock or block the wheels if the machine is left on an incline.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service.

2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

63281 ..... 18 in. (457 mm) Greens King 518A with InCommand™ control system, Honda 4.0 H.P. gasoline engine and 11 blade reel.

63287 ..... 18 in. (457 mm) Greens King 518A with InCommand™ control system, Honda 4.0 H.P. gasoline engine and 15 blade reel.

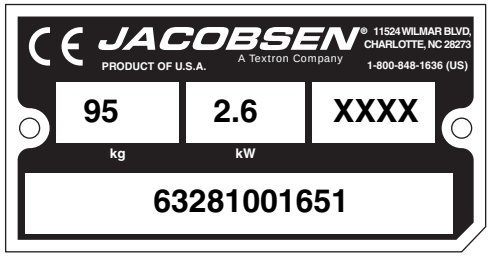
63282 ..... 22 in. (559 mm) Greens King 522A with InCommand™ control system, Honda 4.0 H.P. gasoline engine and 11 blade reel.

63288 ..... 22 in. (559 mm) Greens King 522A with InCommand™ control system, Honda 4.0 H.P. gasoline engine and 15 blade reel.

63285 ..... 26 in. (660 mm) Greens King 526A with InCommand™ control system, Honda 4.0 H.P. gasoline engine and 7 blade reel.

Serial Number ..... An identification plate, like the one shown, listing the serial number, is attached to the rear cross member of the frame.

Always provide the serial number of the unit when ordering replacement parts or requesting service information.



2.2 ENGINE

Engine ..... Honda GX-120 K1Q JG2 4-Cycle, 4HP (2.98 kW) at 4000 RPM

Speed ..... High Idle - 3000 ± 100 RPM
Low Idle - 1700 ± 100 RPM

Fuel ..... Regular Grade (Unleaded)

Fuel Tank ..... 0.66 Gallon (2.5 liter)

Use clean, fresh, regular unleaded gasoline, 85 octane minimum. When using blended fuel, do not use a blend with more than 10% ethanol.

Under no circumstances should you use a blend with methanol.

2.3 MOWER

Reel ..... 7, 11, or 15 blades, hardened high manganese carbon steel.

Reel Diameter ..... 5 in. (127 mm)

Cutting Width ..... 18-1/4 in. (457 mm), 22 in. (559 mm), 26 in. (660 mm)

Cutting Frequency:
- 7 Blade ..... 0.250 in. (6.3 mm)
- 11 Blade ..... 0.169 in. (4.3 mm)
- 15 Blade ..... 0.124 in. (3.1 mm)

Height of cut ..... 5/64 to 7/16 in. (2 to 11 mm)

Bedknives ..... Hardened carbon steel
- High Profile ..... Yields 5/32 in. (4 mm) cut (Standard on 63285)
- Low Profile ..... Yields 7/64 in. (2.8 mm) cut
- Super Tournament ..... Yields 1/16 in. (1.6 mm) cut (Standard on 63281, 63282, 63287, 63288)

Reel Clutch ..... Cog Type

2.4 TRACTION AND DIFFERENTIAL

Transport Tires (Option)	11 x 4 pneumatic bidirectional
Tire Pressure	6 to 8 psi (0.41 to 0.55 BAR)
Reel Drive	7 Rib Micro V Belt
Traction Drive	Synchronous polyurethane belts with Kevlar cord
Traction Reduction Ratio	21.8:1
Reel Reduction Ratio	1.67:1
Traction Clutch	Cog type
Drive Clutch	Centrifugal
Travel speed	3.2 mph (5.14 km/h) @ 3000 RPM
Differential	Full automotive type, housed in traction drum
Rear Drive Drum	Machined aluminum alloy 2 Sections:
63281	7-3/4 (O.D.) x 9.10 in. (197 x 231 mm)
63282	7-3/4 (O.D.) x 10.97 in. (197 x 278 mm)
63285	7-3/4 (O.D.) x 13.25 in. (197 x 343 mm)
63286	7-3/4 (O.D.) x 9.10 in. (197 x 231 mm)
63288	7-3/4 (O.D.) x 10.97 in. (197 x 278 mm)

2.5 WEIGHTS

Weights:	**Lbs.**	**(kg)**
Weight with grass catcher, grooved machined steel front roller, kickstand and weight bars		
63281	202	(92)
63282	218	(99)
63285	272	(123)
63287	205	(93)
63288	222	(101)

2.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Jacobsen Dealer for a complete listing of accessories and attachments.

⚠ CAUTION

Use of other than Jacobsen authorized parts and accessories may cause personal injury or damage to the equipment.

Accessories

Lapping Compound (180 grit)	554598
Orange Touch-up Paint (12 oz. spray)	554598
Guide Wheel	68612
18 in. Grass Catcher	68122
22 in. Grass Catcher	68123
26 in. Grass Catcher	68124
22 in. Push Brush	68611
22 in. Front Roller Brush	68610
18 in. Turf Groomer	68624
22 in. Turf Groomer	68605
26 in. Turf Groomer	68625
18 in. MagKnife Conversion Kit	4131024
22 in. MagKnive Conversion Kit	4130281
26 in. MagKnife Conversion Kit	4131029
Mower Caddy 518 Latch Kit	68649
Mower Caddy 522 Latch Kit	68650
Mower Caddy 526 Latch Kit	68651
Mower Caddy	68648

Solid Rollers

18 in. with Scraper	68626
22 in. with Scraper	68530
26 in. with Scraper	68627

Grooved Rollers

18 in. Machined Steel	68616
22 in. Assembled Disc	68527
22 in. Machined Aluminum	68614
22 in. Machined Steel	68613
22 in. Segmented Roller	68673
26 in. Machined Aluminum	68617
26 in. Machined Steel	68628

Support Literature

Technical Manual	4131586
Operator Training Video	4191633
Service & Repair Manual	4171651

2 SPECIFICATIONS

2.7 DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAŢIE DE CONFORMITATE ▪ VYHLÁSENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE ▪ SAMRÆMISYFIRLÝSING ▪ KONFORMITETSERKLÆRING ▪ 符合性声明 ▪ SAMRÆMISYFIRLÝSING ▪ 適合宣言 ▪ 적합성 선언서 ▪ UYGUNLUK BEYANI ▪ ДЕКЛАРАЦІЯ ПРО ВІДПОВІДНІСТЬ

Business name and full address of the manufacturer ▪ Търговско име и пълен адрес на производителя ▪ Obchodní jméno a plná adresa výrobce ▪ Producentens firmanavn og fulde adresse ▪ Bedrijfsnaam en volledig adres van de fabrikant ▪ Tootja ärinimi ja täielik aadress ▪ Valmistajan toiminimi ja täydellinen osoite ▪ Nom commercial et adresse complète du fabricant ▪ Firmenname und vollständige Adresse des Herstellers ▪ Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή ▪ A gyártó üzleti neve és teljes címe ▪ Ragione sociale e indirizzo completo del fabbricante ▪ Uzņēmuma nosaukums un pilna ražotāja adrese ▪ Verslo pavadinimas ir pilnas gamintojo adresas ▪ Isem kummerċjali u indirizz sħiħ tal-fabbrikant ▪ Nazwa firmy i pełny adres producenta ▪ Nome da empresa e endereço completo do fabricante ▪ Denumirea comercială şi adresa completă a producătorului ▪ Obchodný názov a úplná adresa výrobcu ▪ Naziv podjetja in polni naslov proizvajalca ▪ Nombre de la empresa y dirección completa del fabricante ▪ Tillverkarens företagsnamn och kompletta adress ▪ Fyrirtækisheiti og fullt heimilisfang framleiðanda ▪ Firmanavn og full adresse for produsenten ▪ 制造商的商业名称和完整地址 ▪ Nafn fyrirtækis og fullt heimilisfang framleiðanda ▪ 商号およびメーカーの正式住所 ▪ 제조자의 상호명 및 주소 ▪ İmalatçının ticari ünvanı ve açık adresi ▪ Фірмове найменування і повна адреса виробника	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA
Product Code ▪ Код на продукта ▪ Kód výrobku ▪ Produktkode ▪ Productcode ▪ Toote kood ▪ Tuotekoodi ▪ Code produit ▪ Produktcode ▪ Κωδικός προϊόντος ▪ Termékkód ▪ Codice prodotto ▪ Produkta kods ▪ Produkto kodas ▪ Kodiċi tal-Prodott ▪ Kod produktu ▪ Código do Produto ▪ Cod produs ▪ Kód výrobku ▪ Oznaka proizvoda ▪ Código de producto ▪ Produktkod ▪ Vörunúmer ▪ Produktkode ▪ 产品代码 ▪ Framleiðslunúmer ▪ 製品コード ▪ 제품 코드 ▪ Ürün Kodu ▪ Код виробу	63281 63282 63285 63287 63288
Machine Name ▪ Наименование на машината ▪ Název stroje ▪ Maskinnavn ▪ Machinenaam ▪ Masina nimi ▪ Laitteen nimi ▪ Nom de la machine ▪ Maschinenbezeichnung ▪ Ονομασία μηχανήματος ▪ Gépnév ▪ Denominazione della macchina ▪ Iekārtas nosaukums ▪ Mašinos pavadinimas ▪ Isem tal-Magna ▪ Nazwa urządzenia ▪ Nome da Máquina ▪ Numele echipamentului ▪ Názov stroja ▪ Naziv stroja ▪ Nombre de la máquina ▪ Maskinens namn ▪ Heiti tækis ▪ Maskinnavn ▪ 机器名称 ▪ Nafn vélar ▪ 機械名 ▪ 기기 명칭 ▪ Makine Adı ▪ Назва машини	Greens King 518A 11 Blade Greens King 522A 11 Blade Greens King 526A Tee & Collar Greens King 518A 15 Blade Greens King 522A 15 Blade
Designation ▪ Предназначение ▪ Označení ▪ Betegnelse ▪ Benaming ▪ Nimetus ▪ Tyyppimerkintä ▪ Pažymėjimas ▪ Bezeichnung ▪ Χαρακτηρισμός ▪ Megnevezés ▪ Funzione ▪ Apzīmējums ▪ Lithuanian ▪ Denominazzjoni ▪ Oznaczenie ▪ Designação ▪ Specificaţie ▪ Označenie ▪ Namen stroja ▪ Descripción ▪ Beteckning ▪ Merking ▪ Konstruksjon ▪ 名称 ▪ Útnefning ▪ 用途 ▪ 지정 ▪ Tanımı ▪ Позначення	Lawnmower, Article 12, Item 32
Serial Number ▪ Сериен номер ▪ Sériové číslo ▪ Serienummer ▪ Serienummer ▪ Seerianumber ▪ Valmistusnumero ▪ Numéro de série ▪ Seriennummer ▪ Σειριακός αριθμός ▪ Sorozatszám ▪ Numero di serie ▪ Sērijas numurs ▪ Serijos numeris ▪ Numru Serjali ▪ Numer seryjny ▪ Número de Série ▪ Număr de serie ▪ Sériové číslo ▪ Serijska številka ▪ Número de serie ▪ Serienummer ▪ Raðnúmer ▪ Serienummer ▪ 序列号 ▪ Raðnúmer ▪ シリアル番号 ▪ 일련 번호 ▪ Seri Numarası ▪ Серійний номер	6328101651-6328104500 6328201651-6328204500 6328501651-6328504500 6328701651-6328704500 6328801651-6328804500
Engine ▪ Двигател ▪ Motor ▪ Motor ▪ Motor ▪ Mootor ▪ Moottori ▪ Moteur ▪ Motor ▪ Μηχανή ▪ Modulnév ▪ Motore ▪ Dzinējs ▪ Variklis ▪ Saħħa Netta Installata ▪ Silnik ▪ Motor ▪ Motor ▪ Motor ▪ Motor ▪ Motor ▪ Motor ▪ Vél ▪ Motor ▪ 发动机 ▪ Aflvél ▪ エンジン ▪ 엔진 ▪ Motor ▪ Двигун	Honda GX-120 Gas
Net Installed Power ▪ Нетна инсталирана мощност ▪ Čistý instalovaný výkon ▪ Installeret nettoeffekt ▪ Netto geïnstalleerd vermogen ▪ Installeeritud netovõimsus ▪ Asennettu nettoteho ▪ Puissance nominale nette ▪ Installierte Nettoleistung ▪ Καθαρή εγκατεστημένη ισχύς ▪ Nettó beépített teljesítmény ▪ Potenza netta installata ▪ Paredzētā tīkla jauda ▪ Grynoji galia ▪ Wisa' tal-Qtugħ ▪ Moc zainstalowana netto ▪ Potência instalada ▪ Puterea instalată netă ▪ Čistý inštalovaný výkon ▪ Neto vgrajena moč ▪ Potencia instalada neta ▪ Nettoeffekt ▪ Nettóafl vélar ▪ Netto installert kraft ▪ 装机净功率 ▪ Netuppsetningarorka ▪ 搭載する正味出力 ▪ 정미 출력 ▪ Net Kurulu Güç ▪ Корисна встановлена потужність	2,98 kW @ 3000 RPM
Cutting Width ▪ Широчина на рязане ▪ Šířka řezu ▪ Skærebredde ▪ Maaibreedte ▪ Lõikelaius ▪ Leikkuuleveys ▪ Largeur de coupe ▪ Schnittbreite ▪ Μήκος μισινέζας ▪ Vágási szélesség ▪ Larghezza di taglio ▪ Griešanas platums ▪ Pjovimo plotis ▪ Tikkonforma mad-Direttivi ▪ Szerokość cięcia ▪ Largura de Corte ▪ Lăţimea de tăiere ▪ Šírka záberu ▪ Širina reza ▪ Anchura de corte ▪ Klippbredd ▪ Skurðbreidd ▪ Klippebredde ▪ 剪草宽度 ▪ Breidd sláttar ▪ 刈り取り幅 ▪ 절단 폭 ▪ Kesme Genişliği ▪ Ширина різання	45,7 cm 55,9 cm 66,1 cm
Conforms to Directives ▪ В съответствие с директивите ▪ Splňuje podmínky směrnic ▪ Er i overensstemmelse med direktiver ▪ Voldoet aan de richtlijnen ▪ Vastab direktiividele ▪ Direktiivien mukainen ▪ Conforme aux directives ▪ Entspricht Richtlinien ▪ Ακολουθήστε πιστά τις Οδηγίες ▪ Megfelel az irányelveknek ▪ Conforme alle Direttive ▪ Atbilst direktīvām ▪ Atitinka direktyvų reikalavimus ▪ Valutazzjoni tal-Konformità ▪ Dyrektywy związane ▪ Cumpre as Directivas ▪ Respectă Directivele ▪ Je v súlade so smernicami ▪ Skladnost z direktivami ▪ Cumple con las Directivas ▪ Uppfyller direktiv ▪ Samræmist tilskipunum ▪ I samsvar med direktiv ▪ 符合指令 ▪ Í samræmi við reglugerðir ▪ 適合指令 ▪ 규정 준수 ▪ Şu Yönergelere Uymaktadır ▪ Відповідає директиві	2004/108/EC 2006/42/EC 2000/14/EC, 2005/88/EC 2006/66/EC
Conformity Assessment ▪ Оценка за съответствие ▪ Hodnocení plnění podmínek ▪ Overensstemmelsesvurdering ▪ Conformiteitsbeoordeling ▪ Vastavushindamine ▪ Vaatimustenmukaisuuden arviointi ▪ Evaluation de conformité ▪ Konformitätsbeurteilung ▪ Διαπίστωση Συμμόρφωσης ▪ Megfelelőség-értékelés ▪ Valutazione della conformità ▪ Atbilstības novērtējums ▪ Atitikties įvertinimas ▪ Livell tal-Qawwa tal-Ħoss Imkejjel ▪ Ocena zgodności ▪ Avaliação de Conformidade ▪ Evaluarea conformităţii ▪ Vyhodnotenie zhodnosti ▪ Ocena skladnosti ▪ Evaluación de conformidad ▪ Bedömning av överensstämmelse ▪ Samræmismat ▪ Konformitetsvurdering ▪ 符合性评估 ▪ Samræmismat ▪ 適合性評価 ▪ 적합성 평가 ▪ Uygunluk Değerlendirmesi ▪ Оцінка відповідності	2006/42/EC Annex VIII
Measured Sound Power Level ▪ Измерено ниво на звукова мощност ▪ Naměřený akustický výkon ▪ Målte lydstyrkeniveau ▪ Gemeten geluidsniveau ▪ Mõõdetud helivõimsuse tase ▪ Mitattu äänitehotaso ▪ Niveau de puissance sonore mesuré ▪ Gemessener Schalldruckpegel ▪ Σταθμισμένο επίπεδο ηχητικής ισχύος ▪ Mért hangteljesítményszint ▪ Livello di potenza sonora misurato ▪ Izmērītais skaņas jaudas līmenis ▪ Išmatuotas garso stiprumo lygis ▪ Livell tal-Qawwa tal-Ħoss Iggarantit ▪ Moc akustyczna mierzona ▪ Nível sonoro medido ▪ Nivelul măsurat al puterii acustice ▪ Nameraná hladina akustického výkonu ▪ Izmerjena raven zvočne moči ▪ Nivel de potencia sonora medido ▪ Uppmätt ljudeffektsnivå ▪ Mælt hljóðaflsstig ▪ Målt lydeffektnivå ▪ 测得声功率级 ▪ Mældur hljóðstyrkur ▪ 音出力レベル測定値 ▪ 측정된 음향 파워 레벨 ▪ Ölçülen Ses Gücü Düzeyi ▪ Виміряний рівень звукової потужності	518 - 93 dB(A) ± 1.70 LWA 522 - 93 dB(A) ± 1.70 LWA 526 - 89 dB(A) ± 1.70 LWA
Guaranteed Sound Power Level ▪ Гарантирано ниво на звукова мощност ▪ Garantovaný akustický výkon ▪ Garanteret lydstyrkeniveau ▪ Gegarandeerd geluidsniveau ▪ Garanteeritud helivõimsuse tase ▪ Taattu äänitehotaso ▪ Niveau de puissance sonore garanti ▪ Garantierter Schalldruckpegel ▪ Εγγυημένο επίπεδο ηχητικής ισχύος ▪ Szavatolt hangteljesítményszint ▪ Livello di potenza sonora garantito ▪ Garantētais skaņas jaudas līmenis ▪ Garantuotas garso stiprumo lygis ▪ Livell tal-Qawwa tal-Ħoss Iggarantit ▪ Moc akustyczna gwarantowana ▪ Nível sonoro farantido ▪ Nivelul garantat al puterii acustice ▪ Garantovaná hladina akustického výkonu ▪ Zajamčena raven zvočne moči ▪ Nivel de potencia sonora garantizado ▪ Garanterad ljudeffektsnivå ▪ Hljóðaflsstig sem ábyrgð er tekin á ▪ Garanter lydeffektnivå ▪ 保证声功率级 ▪ Tryggður hljóðstyrkur ▪ 音出力保証レベル ▪ 보장된 음향 파워 레벨 ▪ Garantili Ses Gücü Düzeyi ▪ Гарантований рівень звукової потужності	518 - 95 dB(A) LWA 522 - 95 dB(A) LWA 526 - 91 dB(A) LWA

Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenettely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Proċedura tal-Valutazzjoni tal-Konformità (Ħoss) • Procedura oceny zgodności (poziom hałasu) • Processo de avaliação de conformidade (nível sonoro) Procedura de evaluare a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller) • Samræmismatsaðferð (hávaði) • Prosedyre for konformitetsvurdering (støy) • 符合性评估程序 (噪声) • Aðgerð fyrir samræmismat (Hávaði) • 適合性評価の手順 (騒音) • 적합성 평가 절차 (소음) • Uygunluk Değerlendirme Prosedürü (Gürültü) • Регламент оцінки відповідності (шум)	2000/14/EC Annex VI, Part 1
UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/ЕО • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isossa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/ΕΚ • 2000/14/EK – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK reġistrētā organizācija • JK notifikuotosios įstaigos 2000/14/EC • Korp Notifikat tar-Renju Unit għal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného kráľovstva pre smernicu 2000/14/ES • Britanski priglašeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien • Tilkynntur aðili í Bretlandi fyrir 2000/14/EC • Britisk teknisk for 2000/14/EF • 英国 2000/14/EC 认证机构 • Bretland Upplýsingar fyrir 2000/14/EB • UK (英国) 公認機関、2000/14/EC • 2000/14/EC 에 대한 영국 인증 기관 • 2000/14/EC için BK Onaylı Kuruluş • Британський уповноважений орган для 2000/14/EC	Number: 1088 Sound Research Laboratories Limited Holbrook House, Little Waldingfield Sudbury, Suffolk CO10 0TH
Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Müratase operaatori kõrvas • Melutaso käyttäjän korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επίπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Trokšņa līmenis pie operatora auss • Dirbančiojo su mašina patiriamo triukšmo lygis • Livell tal-Ħoss fil-Widna tal-Operatur • Dopuszczalny poziom hałasu dla operatora • Nível sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaca na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra • Hávaðastig fyrir stjórnanda • Støynivå ved operatørens øre • 操作员耳旁噪声级 • Hljóðstyrkur fyrir stjórnanda • オペレータが感じる騒音レベル • 사용자 청각 소음 레벨 • Operatör Kulak Gürültü Düzeyi • Рівень шуму, що впливає на оператора	82 dB(a) ± 1.70 Leq (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standards armonizzati użati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används • 所采用的协调标准 • Samstilltir staðlar notaðir • 整合規格 • 적용되는 조화 표준 • Kullanılan uyumlu standartlar • Використані гармонізовані стандарти	BS EN ISO 20643 BS EN ISO 5349-1 BS EN ISO 5349-2 BS EN 836
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmät • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u speċifikazzjonijiet tekniċi użati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice şi specificaţiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används • Samræmdir staðlar sem notaðir eru • Benyttede • harmoniserte standarder • 所采用的技术标准和规范 • Tæknistaðlar og -kröfur notaðar • 技術規格および仕様書 • 적용되는 기술 표준 및 규격 • Kullanılan teknik standartlar ve şartnameler • Використані технічні стандарти і умови	B71.4 ISO 2631-1
The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul şi data declaraţiei • Miesto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen • Tæknistaðlar og tæknilýsingar sem notaðar eru • Benyttede tekniske standarder og spesifikasjoner • Staður og dagsetning yfirlýsingar • Sted og dato for erklæringen • 声明的地点与日期 • Staður og dagsetning yfirlýsingarinnar • 宣言場所および日付 • 선언 장소 및 일자 • Beyan yeri ve tarihi • Місце і дата укладення декларації	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA April 29th 2013

2 SPECIFICATIONS

Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community. Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържащ техническата документация и е оторизиран да изготви техническия файл и е регистриран в общността. Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držet technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství. Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret i nærområdet. Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied. Ühenduse registrisse kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik. Sen henkilön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön. Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté. Unterschrift der Person, die berechtigt ist, die Erklärung im Namen des Herstellers abzugeben, die die technischen Unterlagen aufbewahrt und berechtigt ist, die technischen Unterlagen zusammenzustellen, und die in der Gemeinschaft niedergelassen ist. Υπογραφή ατόμου εξουσιοδοτημένου για την σύνταξη της δήλωσης εκ μέρους του κατασκευαστή, ο οποίος κατέχει την τεχνική έκθεση και έχει την εξουσιοδότηση να ταξινομήσει τον τεχνικό φάκελο και ο οποίος είναι διορισμένος στην Κοινότητα. A gyártó nevében meghatalmazott személy, akinek jogában áll módosítania a nyilatkozatot, a műszaki dokumentációt őrzi, engedéllyel rendelkezik a műszaki fájl összeállításához, és aki a közösségben letelepedett személy. Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante, in possesso Della documentazione tecnica ed autorizzata a costituire il fascicolo tecnico, che deve essere stabilita nella Comunità. Tās personas paraksts, kura ir pilnvarota deklarācijas sastādīšanai ražotāja vārdā, kurai ir tehniskā dokumentācija, kura ir pilnvarota sagatavot tehnisko reģistru un kura ir apstiprināta Kopienā. Asmuo, kuris yra gana žinomas, kuriam gamintojas suteikė įgaliojimus sudaryti šią deklaraciją, ir kuris ją pasirašė, turi visą techninę informaciją ir yra įgaliotas sudaryti techninės informacijos dokumentą. Il-firma tal-persuna awtorizzata li tfassal id-dikjarazzjoni f'isem il-fabbrikant, għandha d-dokumentazzjoni teknika u hija awtorizzata li tikkompila l-fajl tekniku u li hija stabbilita fil-Komunità. Podpis osoby upoważnionej do sporządzenia deklaracji w imieniu producenta, przechowującej dokumentację techniczną, upoważnioną do stworzenia dokumentacji technicznej oraz wyznaczonej ds. wspólnotowych. Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade. Semnătura persoanei împuternicite să elaboreze declarația în numele producătorului, care deține documentația tehnică, este autorizată să compileze dosarul tehnic și este stabilită în Comunitate. Podpis osoby poverenej vystavením vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve. Podpis osebe, pooblaščene za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti. Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad. Undertecknas av den som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen. Undirskrift aðilans sem hefur umboð til að gera yfirlýsinguna fyrir hönd framleiðandans, hefur undir höndum tæknigögnin og hefur leyfi til að taka saman tækniskýrsluna, og er viðurkenndur innan evrópska efnahagssvæðisins. Signaturen til personen som har fullmakt til å utferdige erklæringen på vegne av produsenten, er i besittelse av den tekniske dokumentasjonen, har autorisasjon til å utarbeide den tekniske filen og som har tilhold i EU. 获得授权代表制造商起草声明者的签名，此人保留技术文档并获授权编译技术文件，且是社区中获得认可者。 Undirskrift starfsmanns sem hefur heimild til að rita yfirlýsinguna fyrir hendi framleiðandans, hefur umsjón með tæknigögnum og hefur heimild til að setja saman tæknilega skýrslu og sem er tengdur inn í samfélagið. メーカーを代表して宣言書を起草し、技術文書を保有し技術ファイルを編集する権限を有し、地域において確固たる地位を築いている人物の署名。 제조자를 대신하여 선언서를 작성하도록 위임받은 서명자는 기술 문서를 보유하고 기술 자료 수집의 허가를 받았으며 지역 공동체 내에 속해 있습니다 İmalatçı adına beyanı hazırlama yetkisi olan, teknik dokümantasyonu elinde bulunduran ve teknik dosyayı derleme yetkisine sahip, Topluluk içinde yerleşik kişinin imzası. Підпис особи, що уповноважена укласти декларацію від імені виробника, має технічну документацію, уповноважена укласти технічний паспорт і має добру репутацію в суспільстві.	2006/42/EC Annex II 1.A.2 Tim Lansdell Technical Director Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, IP3 9TT, England 2006/42/EC Annex II 1.A.10 Vasant Godhalekar VP of Engineering Jacobsen, A Textron Company 11524 Wilmar Blvd, Charlotte, NC 28273, USA
Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru taċ-Ċertifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer • Númer skírteinis • Sertifikatnummer • 证书编号 • Skírteinisnúmer • 認証番号 • 인증 번호 • Sertifika Numarası • Номер сертифіката	4131586 Rev B

GB United Kingdom · BE Belgium · BG Bulgaria · CH Switzerland · CN China · CY Cyprus · CZ Czech Republic · DE Germany · DK Denmark · EE Estonia · ES Spain · FI Finland · FR France · GR Greece · HU Hungary · IS Iceland · IT Italy

JP Japan · KR Korea · LI Liechenstein · LT Lithuania · LV Latvia · MT Malta · NL Netherlands · NO Norway · PL Poland · PT Portugal · RO Romania · RU Russia · SE Sweden · SI Slovenia · SK Slovakia · TR Turkey · UA Ukrain

2.8 VIBRATION LEVEL

When the machine was tested for hand/arm vibration levels, the operator was standing in the normal operating position with both hands on the handle. The engine was running and the cutting device was rotating with the machine stationary.

The Machinery Safety Directive 2006/42/EC
By compliance to:
The Lawnmower Standard EN836:1997
Referenced to Hand/Arm: BS EN ISO20643:2008

Information Supplied for Physical Agents Directive 2002/44/EC
By reference to:
Hand/Arm Standards: BS EN ISO 5349-1 (2001)
BS EN ISO 5349-2 (2001)

Greens King 500 Series Hand/Arm Acceleration Level	63281 Greens King 518A, 11 Blade	63282 Greens King 522A, 11 Blade	63285 Greens King 526A, 7 Blade	63287 Greens King 518A, 15 Blade	63288 Greens King 522A, 15 Blade
	Maximum Left Hand or Right Hand Accelerations m/s^2				
	Mean Value of X, Y, Z Aeq				
	5.74 ± 1.3	6.477 ± 1.3	3.401 ± 1.3	4.70 ± 1.3	5.54 ± 1.3

3.1 DECALS

Familiarize yourself with the decals, they are critical to the safe operation of the mower. REPLACE DAMAGED DECALS IMMEDIATELY.

WARNING

1. Read operators manual. Do not allow untrained operators to use machine.
2. Keep shields in place and hardware securely tightened.
3. Before you clean, adjust or repair this equipment, disengage all drives, engage parking brake and stop engine.
4. Keep hands, feet and clothing away from moving parts.
5. Never carry passengers.
6. Keep bystanders away

361854

CAUTION

ALLOW ENGINE TO COOL FOR 2 MINUTES BEFORE REFUELING

CAUTION

BE SURE THE TRACTION CLUTCH LEVER IS IN NEUTRAL BEFORE STARTING THE ENGINE

3001790

WARNING

TO PREVENT INJURY AND ACCIDENTAL CLUTCH ENGAGEMENT DO NOT ADJUST ENGINE SPEED USING THROTTLE LEVER ON ENGINE. ALWAYS ADJUST ENGINE SPEED USING THE OPC HANDLE AND THROTTLE PADDLE.

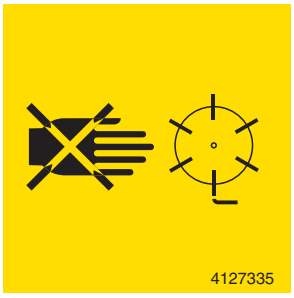
4146636

Vehicle Mass:	
Model PGM 19	84.0 Kg.
Model PGM 22	85.0 Kg.
Model 518A	95.3 Kg.
Model 522TA	100.7 Kg.
Model 522A	101.2 Kg.
Model 526A	123.4 Kg.
Model TC22	101.1 Kg.

WARNING

Keep Bystanders Away. Do Not Operate Without Guards In Place.

2811102



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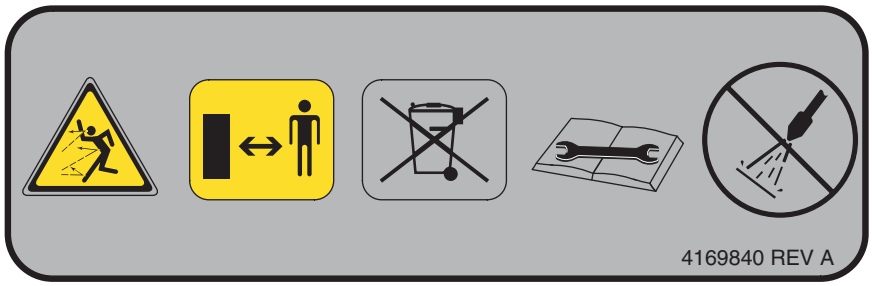
DANGER

Keep hands and feet away from the cutting unit to prevent serious injury.



4169840 REV A

DANGER

1. Keep a safe distance from the machine. Keep bystanders away.

2. Properly dispose of components from this machine. Refer to local regulations for waste disposal and recycling.

3. Refer to the manual for maintenance and service procedures.

4. Do not spray water at electrical components, engine or clutch. Remove battery pack before pressure washing unit.

4.1 GENERAL

The set-up and testing of the unit should always be performed by a trained technician, familiar with the operation of the equipment.

Read each instruction completely and make sure you understand it before proceeding with the assembly. Stay alert for potential hazards and obey all safety precautions.

The RIGHT, LEFT, FRONT, and REAR of the machine are referenced from the operator's position, facing forward.

Accessories not included with this product must be ordered separately. See instructions provided with accessory for installation and parts.

⚠ CAUTION

Do not attempt to operate the machine unless you are familiar with this type of equipment and know how to operate all controls correctly.

This machine is shipped assembled. After unpacking, perform the initial inspection, operating checks, and test the Operator Presence Control (OPC).

4.2 INITIAL INSPECTION

⚠ CAUTION

The initial inspection should be performed only when the engine is off and all fluids are cold. Disengage all drives, engage parking brake, stop engine and disconnect spark plug wire.

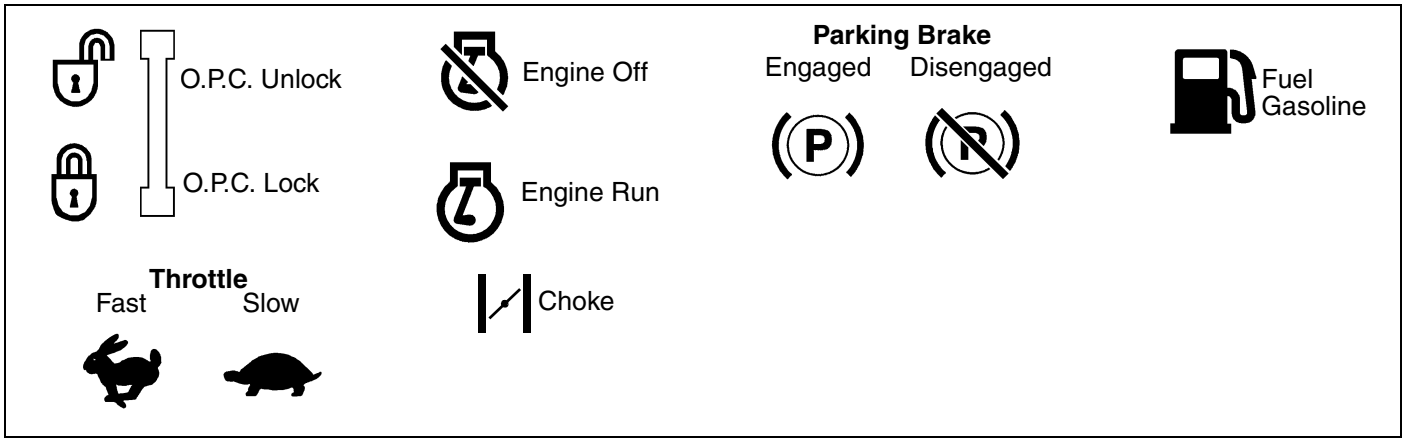
1. Perform a visual inspection of the entire unit, look for signs of wear, loose hardware, and components that may have been damaged during transport.
2. Inspect paint and decals for damage or scratches. Decals provide important operating and safety information. Replace all missing or hard to read decals.
3. Check that the engine oil level is at the full level mark with the engine cold.

NOTICE

Mower is shipped without oil in the engine. To prevent permanent damage, oil must be added before starting engine. See Section 8.3 for oil specifications

4. Visually check for fuel or oil leaks.
5. Inspect lube points for proper lubrication.

5.1 ICONS



⚠ WARNING

Never attempt to operate the machine unless you have read the Technical Manual and the engine manual and know how to operate all controls correctly.

Familiarize yourself with the icons shown above and what they represent. Learn the location and purpose of all the controls before operating this mower.

5.2 CONTROLS

A. ***Parking Brake*** – Used whenever the mower is left unattended or as a service brake while transporting.

B. ***Paddle Throttle –*** Controls the speed of the engine when OPC Bail is engaged. Push (+) side of lever to increase engine speed. Push (-) side of lever to decrease engine speed.

C. ***O.P.C. Bail –*** Engaging bail increases engine speed which engages the centrifugal clutch. Release bail to return engine to idle. The bail must be disengaged to start the engine.

D. ***Engine Switch –*** The engine switch enables and disables the ignition system. The engine switch must be in the ON position for the engine to run. Turning the engine switch to the OFF position stops the engine.

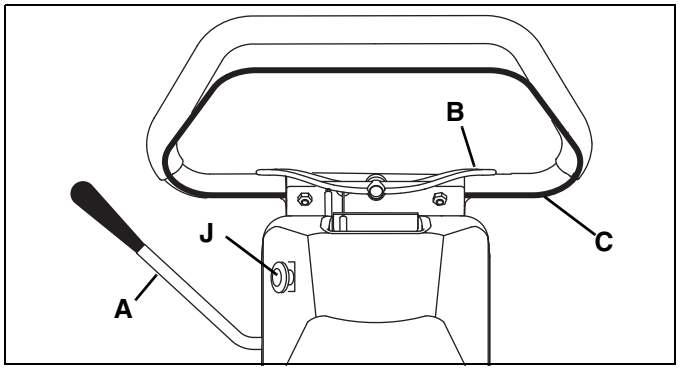


Figure 5A

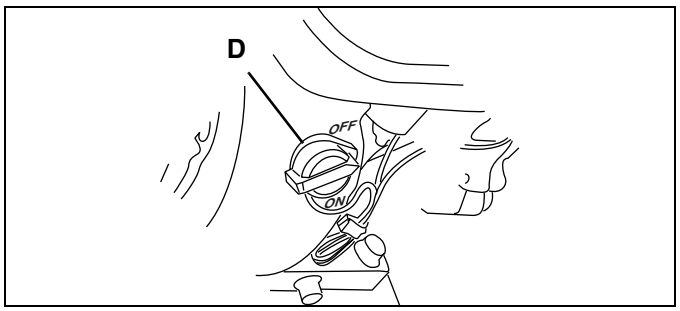


Figure 5B

E. ***Choke Lever -*** The choke lever opens and closes the choke valve in the carburetor. The CLOSED position enriches the fuel mixture for starting a cold engine. The OPEN position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.

F. ***Fuel Valve Lever -*** The fuel valve opens and closes the connection between the fuel tank and the carburetor. The fuel valve lever must be in the ON position for the engine to run. When the engine is not in use, leave the fuel valve lever in the OFF position to prevent carburetor flooding and to reduce the possibility of fuel leakage.

NOTICE

Before tipping mower back for adjustments, the fuel lever must be moved to the OFF position to prevent fuel from leaking into the crankcase.

G. ***Traction Clutch Lever -*** Point lever forward **(G_2)** to disengage traction drive and allow drum to "free-wheel". Point lever to the back **(G_1)** to engage.

H. ***Reel Clutch Lever -*** Point lever up **(H_1)** to engage the reel drive mechanism. Point lever down **(H_2)** to disengage the reel.

⚠ WARNING

To prevent bodily injury or property damage, never engage the reel or traction clutch levers while the engine is running or the O.P.C. bail is engaged.

⚠ DANGER

Keep hands and feet away from the cutting unit to prevent serious cuts.

J. ***E-Stop -*** Used to stop the engine. Push switch down to disable engine ignition, pull up for normal operation.

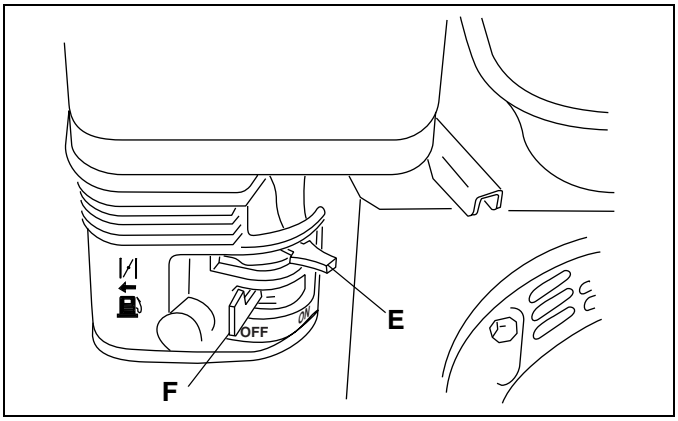


Figure 5C

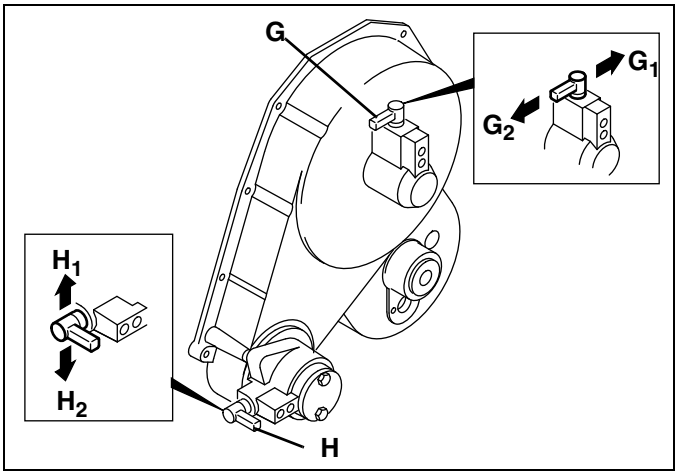


Figure 5D

6 OPERATION

6.1 DAILY INSPECTION

⚠ CAUTION

The daily inspection should be performed only when the engine is off and all fluids are cold. Disengage all drives, engage parking brake, stop engine, and disconnect spark plug wire.

1. Perform a visual inspection of the entire unit, look for signs of wear, loose hardware, missing, or damaged components. Check for fuel or oil leaks.
2. Check the fuel supply and crankcase oil level. All fluids must be at the full mark.
3. Make sure the mower is adjusted to the required cutting height.
4. Make sure the machine is lubricated and the transport tires are properly inflated.
5. Check the O.P.C. system.

6.2 OPERATOR PRESENCE CONTROL (O.P.C.)

1. The O.P.C. system is intended to protect the operator and others from injury by stopping the reel and drive mechanism as soon as the operator releases the O.P.C. bail. The unit is also equipped with an engine stop (E-Stop) switch that will stop the engine from the operator's position.

⚠ WARNING

Never operate equipment with the O.P.C. system disconnected or malfunctioning. Do not disconnect or bypass any switch.

2. To test the system:
   a. Place mower on the kickstand.
   b. Disengage the reel clutch lever **(E)**.
3. Start the engine.
   a. Slide bail to the left and engage OPC Bail.
   b. Engine speed will increase, the drive mechanism will engage, and the wheels will begin to turn.
   c. Release the O.P.C. bail. The bail must disengage, engine speed return to idle, and drive mechanism must stop.
   d. Push E-Stop switch down. Engine must stop immediately.
4. If the drive mechanism engages before the O.P.C. bail is engaged, or the drive mechanism continue to turn after the O.P.C. bail is released, stop the engine immediately and have the system repaired.

6.3 OPERATING PROCEDURES

⚠ CAUTION

To help prevent injury, always wear safety glasses, leather work shoes or boots, a hard hat, and ear protection. Long hair, loose clothing, or jewelry may get tangled in moving parts.

1. Under no circumstances should the engine be started with operator or bystanders standing in front of the reel.
2. Never run the engine in an enclosed area.
3. Keep hands and feet away from moving parts and cutting units. If possible, do not make adjustments with the engine running.
4. Do not operate mower or attachments with loose, damaged, or missing components. Whenever possible mow when grass is dry.
5. First mow in a test area to become thoroughly familiar with the operation of the mower and control levers.

NOTICE

To prevent damage to the reel and bedknife never operate the reels when they are not cutting grass. Excessive friction and heat will develop between the bedknife and reel, and damage the cutting edge.

6. Study the area to determine the best and safest operating procedure. Consider the height of the grass, type of terrain, and condition of the surface. Each condition will require certain adjustments or precautions. Only use accessories and attachments approved by Jacobsen.
7. Be aware of mower discharge direction and never direct discharge of material toward bystanders. Never allow anyone near the machine while in operation. The owner/operator is responsible for injuries inflicted to bystanders and/or damage to their property.

⚠ CAUTION

Before mowing, pick up all debris such as rocks, toys and wire which can be thrown by the machine. Enter a new area cautiously. Always operate at speeds that allow you to have complete control of the mower.

8. Use discretion when mowing near gravel areas (roadway, parking areas, cart paths, etc.). Stones discharged from the mower may cause serious injuries to bystanders and/or damage the equipment.
9. Disengage the reel clutch to stop blades when not mowing.
10. Disengage the reel clutch when crossing paths or roadways. Look out for traffic.
11. Stop and inspect the equipment for damage immediately after striking an obstruction or if the machine begins to vibrate abnormally. Have the equipment repaired before resuming operation.

⚠ WARNING

Before you clean, adjust, or repair this equipment, always disengage all drives, engage parking brake, stop engine, and remove spark plug wire to prevent injuries.

12. Slow down and use extra care on hillsides. Use caution when operating near drop offs.
13. Look behind and down before backing up to be sure of a clear path. Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
14. Never use your hands to clean cutting units. Use a brush to remove grass clippings from blades. Blades are extremely sharp and can cause serious injuries

6.4 STARTING/STOPPING ENGINE

⚠ CAUTION

Always start and stop the engine when the mower is on level ground. Keep feet away from blade when starting engine.

Starting

1. Check oil level and fuel supply then open fuel valve lever **(F)**.
2. Move the choke lever **(E)** to the CLOSED position.
3. Set engine switch **(D)** to ON.
4. Make certain the O.P.C. bail **(C)** is disengaged and the parking brake **(A)** is engaged.
5. Select desired position for traction clutch lever **(G)** and reel clutch lever **(H)**.

   To cut - engage traction clutch **(G_1)** and reel clutch **(H_1)**.

   To transport - engage traction clutch **(G_1)** and disengage reel clutch **(H_2)**.

⚠ WARNING

To prevent bodily injury or property damage, never engage the traction or reel clutch lever while the engine is running or the O.P.C. bail is engaged.

6. Start the engine. Do not allow the cord to snap back into the starter. Do not tilt the mower back when starting.
7. When engine starts, move choke lever **(F)** to the OPEN position. Intermittent choking may be required while engine is cold.
8. Allow engine to warm up gradually.

Stopping

1. To stop the engine, release the O.P.C. bail (**C**), and set engine switch **(D)** to OFF position. Close fuel shutoff valve **(F)**.
2. Engage parking brake **(A)**.

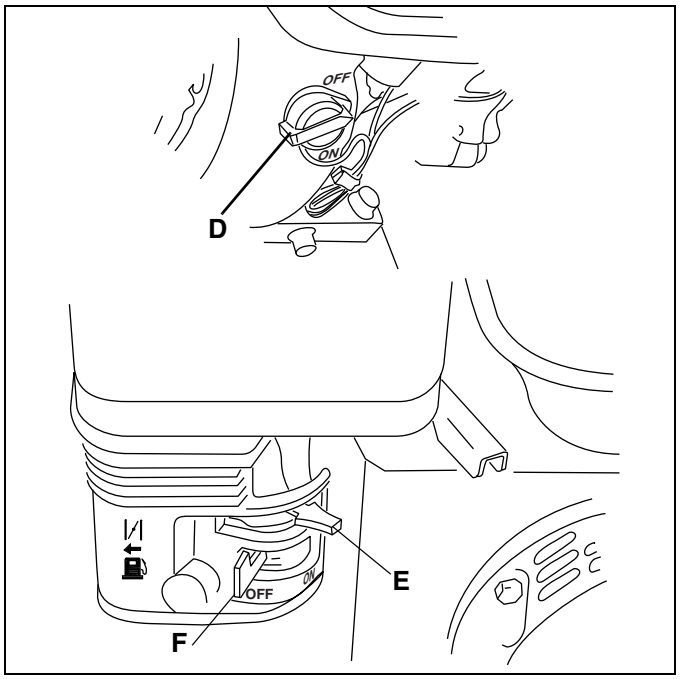


Figure 6A

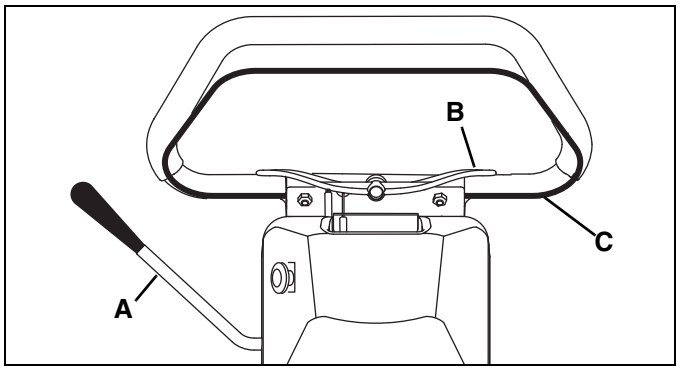


Figure 6B

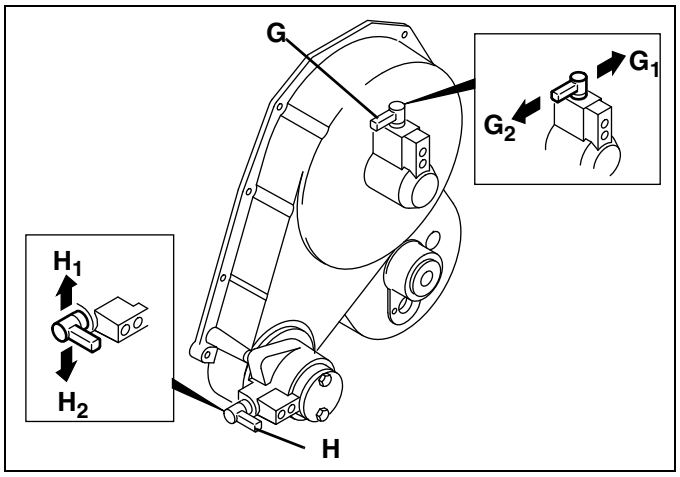


Figure 6C

6.5 TRANSPORT WHEELS (OPTIONAL KIT)

⚠ WARNING

Always stop the engine and disengage the drive levers before installing or removing the transport wheels.

1. Push and hold the kickstand against the ground then pull the mower handle back until the mower rests on the stand **(L)**.
2. To remove wheels, press retaining clip **(K)** away from hub, and pull wheel off hub.
3. To install wheels, press retaining clip **(K)**, place wheel on hub, and turn the wheel backwards until studs on back of wheel line up with holes in hub **(J)**. Push wheel in and release clip.
4. Always disengage reel clutch lever **(H_2)** and engage traction clutch lever **(G_1)** prior to transporting the mower more than a few feet.
5. Push the mower forward off the kickstand, start the engine and engage the O.P.C. bail.
6. When using a vehicle to transport the mower, apply parking brake, stop engine, and close fuel shut-off valve.
7. Recommended Tire Pressure: 6 to 8 psi (0.41 to 0.55 BAR).

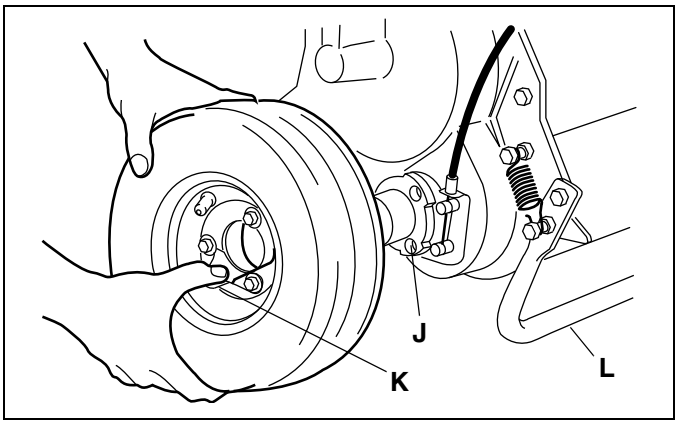


Figure 6D

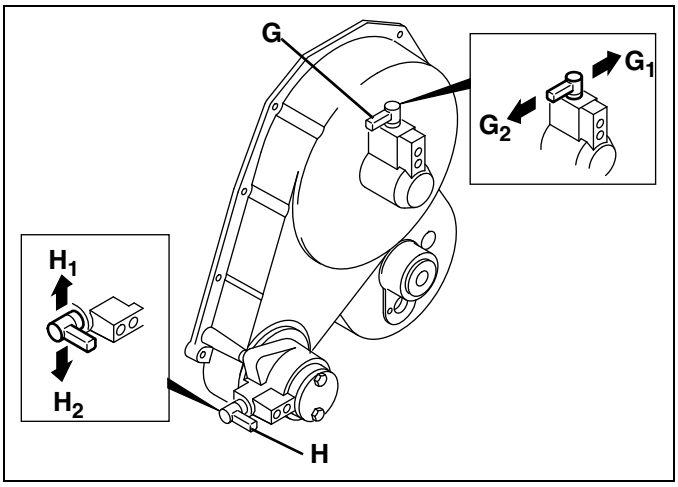


Figure 6E

6.6 GRASS CATCHER

1. When the basket is about two thirds (2/3) full of grass clippings, move the mower off the green.
2. Stop on a flat surface, disengage all drives, and stop the engine.
3. Remove and empty the grass clippings from the mower.

⚠ DANGER

To prevent serious injury, always stop the engine and disengage all drives before emptying grass catcher.

6.7 WEIGHT BARS

1. This mower was designed to be used with a Jacobsen Turf Groomer®. The weight bars located above the grass deflector should be removed when using a groomer.
2. When using a front roller, the weights can be removed to compensate for soft greens and other mowing conditions.

6.8 MOWING

1. Stop the engine. Place mower on kickstand and remove the transport wheels.
2. Engage the reel clutch lever **(H_1)** and the traction clutch lever **(G_1)**. Push the mower forward off kickstand. Start the engine.

⚠ WARNING

To prevent bodily injury or property damage, never engage the reel or traction clutch levers while the engine is running or the O.P.C. bail is engaged.

3. Position mower slightly off the green.
   a. Adjust engine speed **(B)** to provide a safe, comfortable walking speed.
   b. Push handle down to lift the mower head above the grass then engage the O.P.C. bail (**C**).
   c. As the mower crosses the edge of the green, lower the mower head to the ground, and proceed across the green in a straight line.
   d. When the opposite side of the green is reached, push down of the handle to lift the mower head without disengaging the O.P.C. bail, and proceed off the green to turn around, or simply release O.P.C. bail and turn around.
   e. To turn to the right, start by turning mower slightly to the left **(2)**. When the mower has moved approximately 1/2 its own width to the left, swing it around quickly to the right **(3 and 4)**, guiding the mower with your right hand. This method makes it possible to turn around quickly with very few steps. **[Figure 6F]**

NOTICE

To prevent damage to the reel and bedknife never operate the reels when they are not cutting grass. Excessive friction and heat will develop between the bedknife and reel, and damage the cutting edge.

4. To assure complete, even cutting, overlap swaths by 1 to 2 in., (25 to 50 mm), then make one or more passes around the perimeter of the green to clean ragged edges and separate the putting green surface from the apron.
5. For a more even playing surface and neater appearance, alter the mowing pattern each time a green is mowed. The patterns shown in **Figure 6G** are suggestions only, the operator or course superintendant can arrange patterns to suit each green.
6. Use caution while operating on hillside and drop-offs.

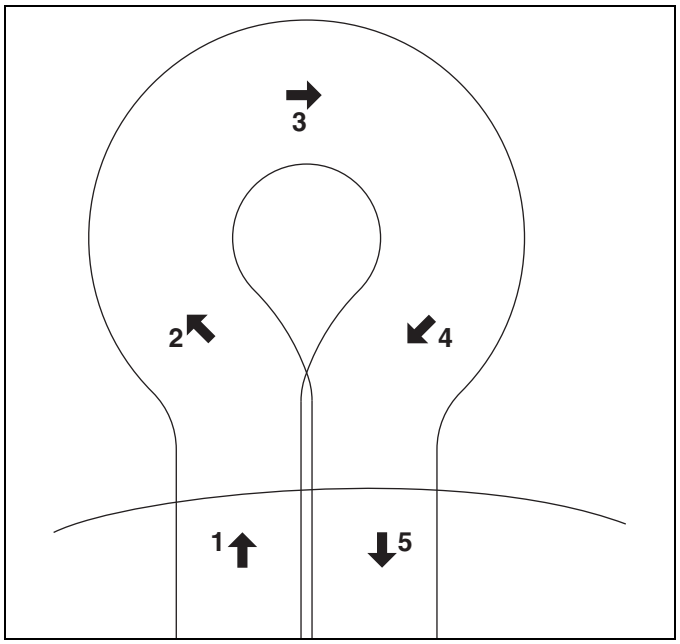


Figure 6F

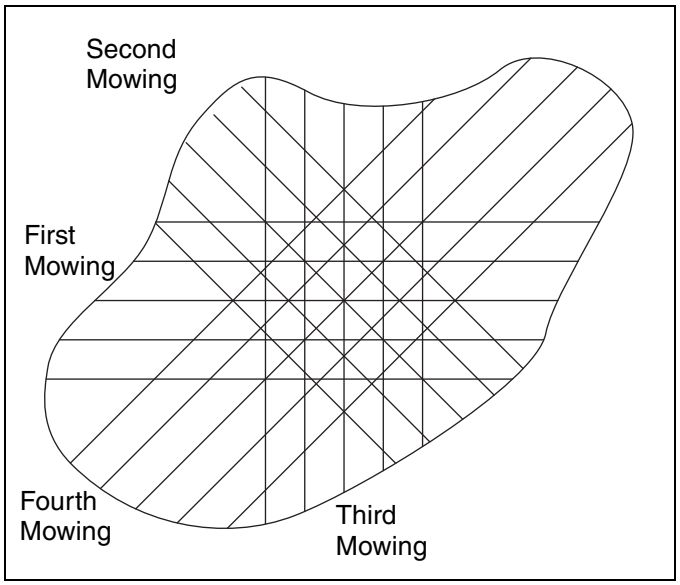


Figure 6G

6.9 DAILY MAINTENANCE

1. Park the mower on a flat, level surface, engage parking brake, and stop the engine.
2. Grease and lubricate all points if required.
3. To prevent fires, wash the mower after each use. Clean all grass clippings and debris off reel, drives, engine, and muffler

   a. Use only fresh water for cleaning your equipment.

NOTICE

Use of salt water or affluent water will encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.

   b. Do not use high pressure spray.

   c. Do not spray water into the cooling fins or the engine air intake.

NOTICE

Do not wash a hot or running engine. Use compressed air to clean the engine.

4. Fill fuel tank at the end of each operating day. Do not fill above the fuel strainer shoulder. Close fuel valve **(G)** when unit is not in use.

   Use clean, fresh, unleaded gasoline, 86 octane minimum. Refer to the engine's operator manual for fuel recommendations when using blended fuel.

Handle fuel with care - it is highly flammable. Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.

⚠ WARNING

Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.

Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.

Do not spill fuel and clean spilled fuel immediately.

Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.

Be sure to reinstall and tighten fuel cap securely.

5. Store fuel according to local, state, or federal ordinances, and recommendations from your fuel supplier.
6. Check the engine oil at the start and end of each day, before starting the engine. If the oil level is low, remove the oil filler cap and add oil as required. Do not overfill.

7 ADJUSTMENTS

7.1 GENERAL

⚠ WARNING

Before you adjust, clean, or repair this equipment, always disengage all drives, engage parking brake, and stop engine to prevent serious injury.

Whenever performing maintenance other than carburetor adjustments, remove the spark plug wire, and place the wire away from the plug to prevent accidental starting and bodily injury.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper adjustment cannot be made, contact an authorized Jacobsen dealer.
2. Replace, do not adjust, worn or damaged components.
3. Long hair, jewelry, or loose fitting clothing may get tangled in moving parts.

⚠ CAUTION

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

7.2 REEL-TO-BEDKNIFE

(Pre-adjustment Check)

1. Check the reel bearings for end play or radial play. If there is any abnormal movement of the reel, up and down or side to side, adjust or replace components as needed.

⚠ CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

2. Inspect the reel blades and bedknife to ensure good sharp edges without bends or nicks.
   a. The cutting edges of the reel blades and bedknife must be sharp, free of burrs and show no signs of rounding off.
   b. The bedknife and bedknife backing must be securely tightened. The bedknife must be straight and sharp.
   c. A flat surface of at least 1/32 in. (0.8 mm) minimum must be maintained on the front face of the bedknife. Use a standard flat file to dress the bedknife.
3. If wear or damage is beyond the point where the reel or bedknife can be corrected by the lapping process, they must be reground.
4. Proper reel-to-bedknife adjustment is critical. A gap of 0.001 to 0.003 in. (0.025 to 0.076 mm) must be maintained across the entire length of the reel and bedknife.
5. The reel must be parallel to the bedknife. An improperly adjusted reel will lose its sharp edges prematurely and may result in serious damage to the reel and bedknife.
6. Grass conditions will also affect the adjustment.
   a. Dry, sparse conditions will require a wider gap to prevent heat buildup and damage to the reel and bedknife.
   b. High quality grass with a good moisture content requires a closer gap (near zero).

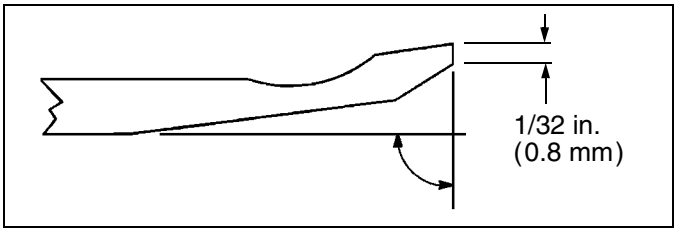


Figure 7A

7.3 BEDKNIFE ADJUSTER

1. Adjuster **(A)** is used to increase or decrease the spring load on the bedknife. Adjuster **(B)** is used to move the bedknife to the reel or away from the reel.
2. Once the spring is totally collapsed as a result of many adjustments, the bedknife cannot be moved. Back-off adjuster **(A)** before adjusting **(B)**.
3. For most applications, compress the spring to 1 in. (25 mm).

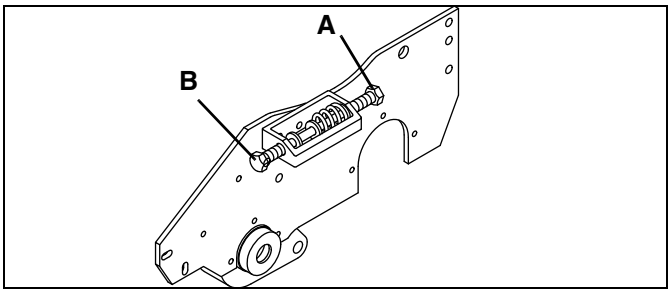


Figure 7B

7.4 BEDKNIFE

1. Read Section 7.2 before making the adjustment.
2. Start adjustment at the leading edge of the reel, followed by the trailing end. *The leading end of the reel blade is the end that passes over the bedknife first during normal rotation.*

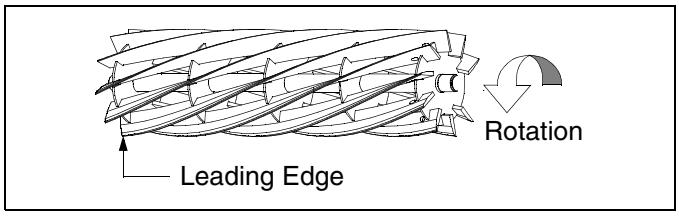


Figure 7C

⚠ CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

3. Turn adjuster **(B)** clockwise to bring the bedknife closer to the reel or counterclockwise to back the bedknife away from the reel.
   a. Slide a feeler gauge or shim stock 0.001 - 0.003 in., (0.025 - 0.075 mm) between the reel blade and the bedknife. Do not turn the reel.
   b. Adjust the trailing end of the reel in the same manner, then recheck the adjustment at the leading end.
   c. When the reel and bedknife are properly adjusted, the reel will spin freely, and will cut a piece of newspaper along the full length of the reel when the paper is held at 90° to the bedknife.

7.5 BRAKE

A properly adjusted brake requires 10 lb. pull at top of brake lever to engage and must have 1.50 in. (38 mm) center to center when released.

1. Minor adjustments are made at the handle. Loosen nut **(H)**, turn nut **(J)** to adjust the brake cable, then tighten nut **(H)**.
2. If adjustments cannot be made at the handle, remove the transport wheel, and make the adjustment at the brake band.
3. Loosen screw **(K)** and pull cable to obtain desired brake tension. Tighten screw **(K)**. Readjust **(H)** and **(J)**.

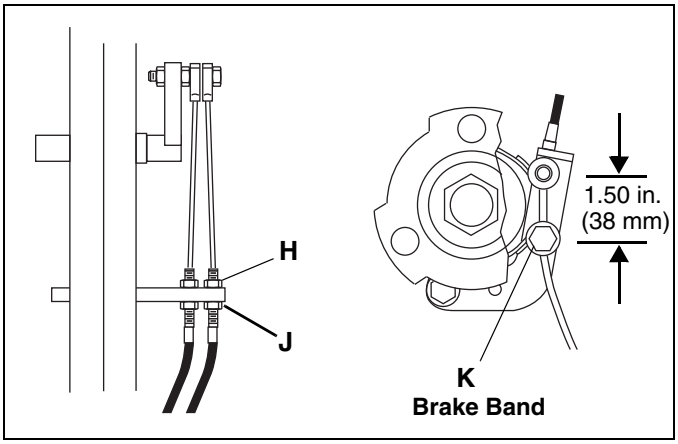


Figure 7D

7.6 CUTTING HEIGHT

Note: Make sure the bedknife is properly adjusted before setting the cutting height. (See Section 7.4)

1. Push kickstand down and tip mower back on it's handle. Do not leave the mower tipped back for an extended length of time or oil may migrate into the combustion chamber.
2. Loosen nuts **(M)** on both sides just enough to allow knob **(L)** to raise the front roller or Turf Groomer. Raise both sides an equal amount.
3. Set gauge screw **(P)** to the desired cutting height **(O)**. Measure from the gauge bar **(N)** to the underside of the screw head **(P)** then tighten wing nut to lock the adjustment.
4. Place gauge bar between front roller and traction roller, near the outer end of the rollers.
5. Slide screw head over bedknife **(Q)** and adjust knob **(L)** so roller just contacts the gauge bar. Tighten nut **(M)**.
6. Repeat Steps 4 and 5 on the opposite end of the reel then tighten nuts **(M)**. Recheck and readjust the cutting height if necessary.

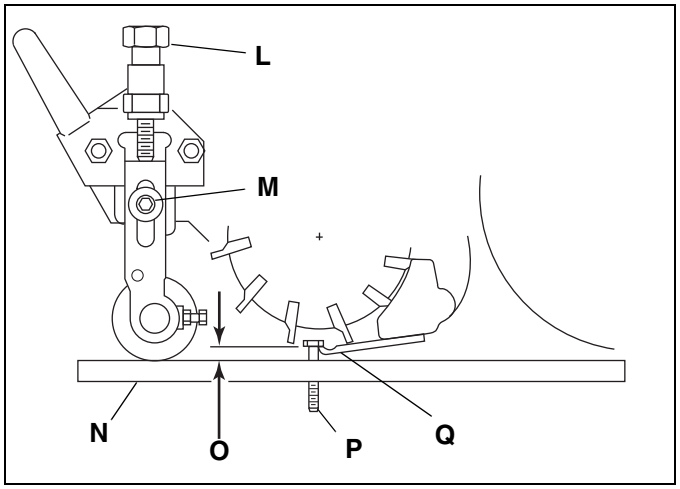


Figure 7E

7.7 BELT ADJUSTMENT

1. Belt **(A)** is tensioned by a spring loaded idler pulley **(F)**. No adjustment is necessary.

NOTICE

To prevent permanent damage to the belt, do not twist, fold, bend or overtighten the belt.

2. To adjust belt **(B)** or **(C)**, loosely assemble 5/16-18 x 3-1/4" hex head screw **(K)** through tension bracket **(P)**, bearing bracket and 5/16-18 hex nut **(N)**. Assemble 5/16-18 x 1" hex head screw **(L)** and 5/16-18 hex nut **(N)** to bottom of bearing bracket **(G)**. Loosen nuts **(E)**.
   a. Place bedknife gauge bar **(H)** on top of roller and under screw **(L)**. Tighten screw (L) until belt **(B)** deflects 1/10" (2.5 mm) with 12.2 ~ 15.2 lb (5.5 ~ 7.4 kg) load applied at mid span.
   b. Tighten screw **(K)** until belt **(C)** deflects 9/64" (3.5 mm) with 3.5 ~ 6.3 lb (1.59 ~ 2.86 kg) load applied at mid span.
   c. Tighten nuts **(E)** and remove 5/16-18 x 1" screw **(L)** and lower nut **(N)**.

   Note: 5/16-18 x 3-1/4" screw **(K)** and upper nut **(N)** can be left in place after the adjustment procedure is complete without affecting operation.
3. Place hardware **(L and N)** in a safe place for future adjustments.

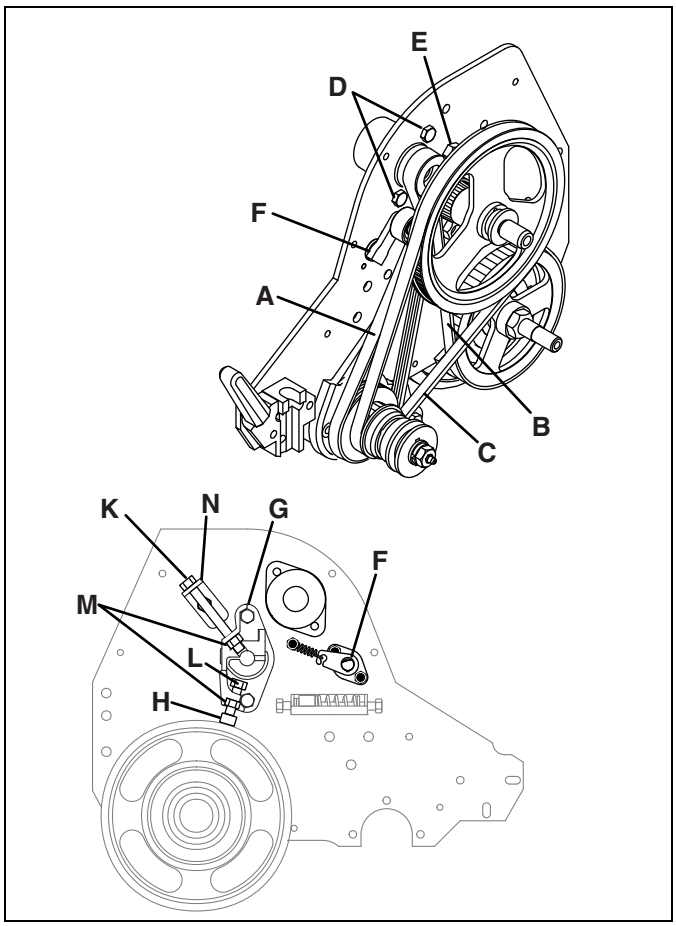


Figure 7F

7.8 HANDLE

1. To adjust the angle of the handle bar **(Y)**, loosen screw **(W)** on both sides of the mower and adjust the handle bar to the desired position.
2. After adjusting handle bar, adjust bracket **(X)** so that the handle bar just rests on the bottom of the slot in bracket. Tighten screw **(W)**.

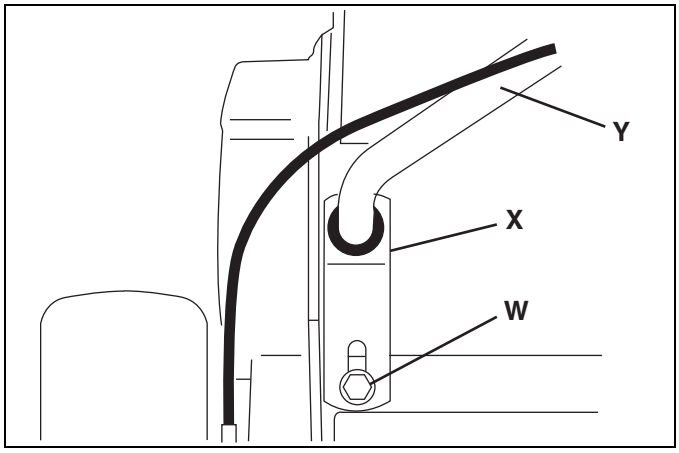


Figure 7G

7.9 TORQUE SPECIFICATION

NOTICE

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Jacobsen is not responsible for any loss, claim, or damage arising from the use of these charts. **Extreme caution should always be used when using any torque value.**

Jacobsen uses Grade 5 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

AMERICAN NATIONAL STANDARD FASTENERS

SIZE	UNITS	GRADE 5		GRADE 8		SIZE	UNITS	GRADE 5		GRADE 8	
		Lubricated	Dry	Lubricated	Dry			Lubri-cated	Dry	Lubri-cated	Dry
#6-32	in-lb (Nm)	–	20 (2.3)	–	–	7/16-14	ft-lb (Nm)	37 (50.1)	50 (67.8)	53 (71.8)	70 (94.9)
#8-32	in-lb (Nm)	–	24 (2.7)	–	30 (3.4)	7/16-20	ft-lb (Nm)	42 (56.9)	55 (74.6)	59 (80.0)	78 (105)
#10-24	in-lb (Nm)	–	35 (4.0)	–	45 (5.1)	1/2-13	ft-lb (Nm)	57 (77.2)	75 (101)	80 (108)	107 (145)
#10-32	in-lb (Nm)	–	40 (4.5)	–	50 (5.7)	1/2-20	ft-lb (Nm)	64 (86.7)	85 (115)	90 (122)	120 (162)
#12-24	in-lb (Nm)	–	50 (5.7)	–	65 (7.3)	9/16-12	ft-lb (Nm)	82 (111)	109 (148)	115 (156)	154 (209)
1/4-20	in-lb (Nm)	75 (8.4)	100 (11.3)	107 (12.1)	143 (16.1)	9/16-18	ft-lb (Nm)	92 (124)	122 (165)	129 (174)	172 (233)
1/4-28	in-lb (Nm)	85 (9.6)	115 (13.0)	120 (13.5)	163 (18.4)	5/8-11	ft-lb (Nm)	113 (153)	151 (204)	159 (215)	211 (286)
5/16-18	in-lb (Nm)	157 (17.7)	210 (23.7)	220 (24.8)	305 (34.4)	5/8-18	ft-lb (Nm)	128 (173)	170 (230)	180 (244)	240 (325)
5/16-24	in-lb (Nm)	173 (19.5)	230 (26.0)	245 (27.6)	325 (36.7)	3/4-10	ft-lb (Nm)	200 (271)	266 (360)	282 (382)	376 (509)
3/8-16	ft-lb (Nm)	23 (31.1)	31 (42.0)	32 (43.3)	44 (59.6)	3/4-16	ft-lb (Nm)	223 (302)	298 404	315 (427)	420 (569)
3/8-24	ft-lb (Nm)	26 (35.2)	35 (47.4)	37 (50.1)	50 (67.8)	7/8-14	ft-lb (Nm)	355 (481)	473 (641)	500 (678)	668 (905)

METRIC FASTENERS

SIZE	UNITS	4.6		8.8		10.9		12.9		Non Critical Fasteners into Aluminum
		Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	
M4	Nm (in-lb)	–	–	–	–	–	–	3.83 (34)	5.11 (45)	2.0 (18)
M5	Nm (in-lb)	1.80 (16)	2.40 (21)	4.63 (41)	6.18 (54)	6.63 (59)	8.84 (78)	7.75 (68)	10.3 (910	4.0 (35)
M6	Nm (in-lb)	3.05 (27)	4.07 (36)	7.87 (69)	10.5 (93)	11.3 (102)	15.0 (133)	13.2 (117)	17.6 (156)	6.8 (60)
M8	Nm (in-lb)	7.41 (65)	9.98 (88)	19.1 (69)	25.5 (226)	27.3 (241)	36.5 (323)	32.0 (283)	42.6 (377)	17.0 (150)
M10	Nm (ft-lb)	14.7 (11)	19.6 (14)	37.8 (29)	50.5 (37)	54.1 (40)	72.2 (53)	63.3 (46)	84.4 (62)	33.9 (25)
M12	Nm (ft-lb)	25.6 (19)	34.1 (25)	66.0 (48)	88.0 (65)	94.5 (70)	125 (92)	110 (81)	147 (108)	61.0 (45)
M14	Nm (ft-lb)	40.8 (30)	54.3 (40)	105 (77)	140 (103)	150 (110)	200 (147)	175 (129)	234 (172)	94.9 (70)

8.1 GENERAL

WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, engage parking brake, and stop engine to prevent injuries.

Whenever performing maintenance other than carburetor adjustments, remove the spark plug wire, and place the wire away from the plug to prevent accidental starting and bodily injury.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen.
2. Inspect the equipment on a regular basis, establish a maintenance schedule, and keep detailed records.
   a. Keep the equipment clean.
   b. Keep all moving parts properly adjusted and lubricated.
   c. Replace worn or damaged parts before operating the machine.
   d. Keep all fluids at their proper levels.
   e. Keep shields in place and all hardware securely fastened.
   f. Keep tires properly inflated.
3. Long hair, jewelry, or loose fitting clothing may get tangled in moving parts.
4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to local, state, or federal regulations.
6. Wash the mower and accessories after each use. Keep the equipment clean.
7. Repair damaged metal surfaces and use Jacobsen Orange touch-up paint.

8.2 ENGINE

IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this machine. Read the engine manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order replacement engine manuals contact the engine manufacturer.

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

NOTICE

The mower is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.

During the break-in period, Jacobsen recommends the following:

1. Operate machine modestly for the first 25 hours at reduced engine speed.
2. Avoid full throttle starts and rapid acceleration.
3. Allow the engine to reach operating temperature before operating at full load.
4. Change the engine oil after the first 20 hours of operation.
5. Refer to Section 10.2 and Engine Manual for specific maintenance intervals.

8.3 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove oil filler cap, and add oil as required.

Perform initial oil change after the first 20 hours of operation. Change oil every 100 hours thereafter.

See the engine manufacturer's Owners's Manual for detailed service information.

After adding or changing oil, start and run engine at idle with all drives disengaged for 30 seconds. Shut engine off. Wait 30 seconds and check oil level. Add oil to bring up to FULL mark on dipstick.

Use only SAE 10W30 engine oils with API classification SG.SF/CC.CD.

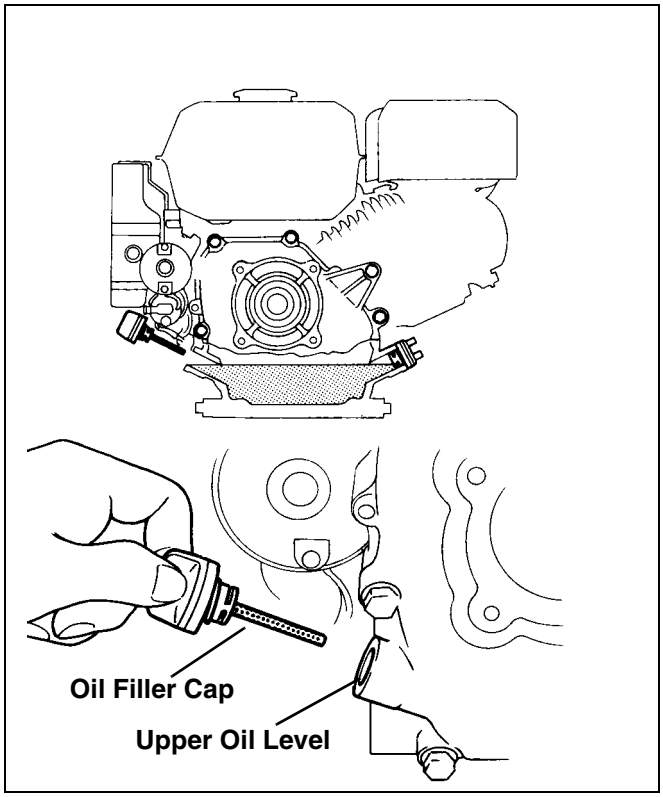


Figure 8A

8.4 FUEL

Handle fuel with care - it is highly flammable. Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.

⚠ WARNING

Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.

Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.

Do not spill fuel and clean spilled fuel immediately.

Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.

Be sure to reinstall and tighten fuel cap securely.

- Store fuel according to local, state, or federal ordinances, and recommendations from your fuel supplier.
- Never overfill or allow the tank to become empty.
- Use clean, fresh, regular grade, unleaded gasoline minimum 86 Octane. Refer to the engine's operator manual for fuel recommendations when using blended fuel.
- See engine manual before using oxygenated (blended) fuel.
- Do not fill above the fuel filler neck.

8.5 TRANSPORT TIRES (OPTION)

1. Keep tire properly inflated to prolong tire life. Check pressure only when the tires are cool.
2. Use an accurate, low pressure tire gauge. 6 - 8 psi - (0.413 - 0.551 BAR).

⚠ CAUTION

Unless you have the proper training, tools, and experience, DO NOT attempt to mount a tire on a rim. Improper mounting can produce an explosion that may result in serious injury.

8.6 WHEEL BEARING

The bearing has the word LOCK and an arrow stamped on the face. When replacing the bearing, make absolutely certain that the bearing is installed in the proper direction of rotation.

For the **Right** wheel, install the bearing with the LOCK➡ arrow to the **Outside** of the housing.

For the **Left** wheel, install the bearing with the LOCK➡ arrow to the **Inside** of the housing.

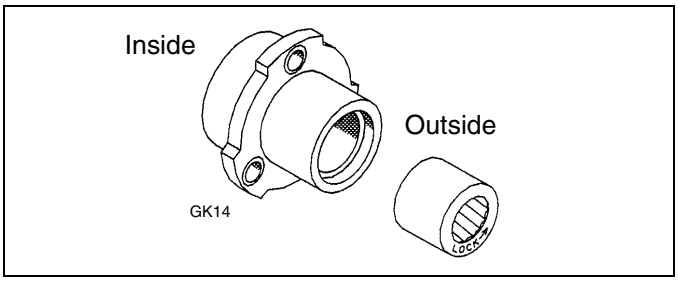


Figure 8B

8.7 BACKLAPPING AND GRINDING

Check for damage to the bedknife and reel blades. Refer to (Section 7.2).

1. Determine if backlapping or grinding will restore the proper cutting edge.
2. For optimum performance use a bedknife grinder to touch-up the blade then reassemble and adjust the reel-to-bedknife as described in (Section 7.2).
3. Remove shaft cover from right side of reel and assemble a 3/8-24 bolt and locknut to the end of the shaft.
   a. Apply lapping compound with a long handle brush along the entire length of the reel, (180 grit is recommended, Section 2.6).
   b. Continue lapping and at the same time make a fine adjustment on the reel and bedknife until there is a uniform clearance along the full length of the cutting edges.
4. Carefully and thoroughly remove all lapping compound from reel and bedknife *before running the reel in forward direction*.

8.8 STORAGE

General

1. Clean the mower thoroughly and lubricate. Whenever possible, use compressed air to clean mower.
2. Repair and paint damaged or exposed metal.
3. Inspect the mower, tighten all hardware, replace worn or damaged components. Refurbish the reel and bedknife.
4. Back the bedknife away from the reel and apply a light coat of rust preventative oil on the reel blades and bedknife,
5. Store the mower on kickstand so the load is off the tires. The front roller or Turf Groomer should be resting on a wood board.
6. Keep the mower and all its accessories clean, dry, and protected from the elements during storage. Never store equipment with fuel in the tank inside a building where fumes may reach an open flame or spark.
7. Do not store near flammable debris.

Engine

1. While the engine is warm, remove drain plug, drain the oil from the crankcase. Install drain plug and refill with fresh oil. Torque drain plug to 22 ft. lb. (30 Nm).
2. Clean exterior of engine. Paint the exposed metal or apply a light coat of rust preventative oil.
3. To prevent the build-up of gum residues and vanish films, fill the tank with stabilized fuel. Use an anti-oxidant fuel conditioner, such STA-BIL®. Read and follow the instructions on the container.
4. Operate the engine for about 5 minutes to distribute the treated fuel. Stop the engine, close the fuel shut-off valve, and let the engine cool. Drain fuel.
5. Remove the spark plug, and pour about one ounce of SAE 30 oil into the cylinder. Crank engine slowly by hand to distribute oil over the cylinder wall. Replace the spark plug.
6. Pull the starter rope slowly until resistance is felt. Continue pulling until the notch on the starter pulley aligns with the hole on the recoil starter. At this point, the intake and exhaust valves are closed.

After Storage

1. Check or service the fuel filter and air cleaner.
2. Check oil level in the engine crankcase.
3. Fill the fuel tank with fresh fuel. Open fuel shut off valve.
4. Remove all oil from the cutting edges. Readjust reel-to-bedknife and cutting height.
5. Support mower so traction drum is off the ground and disengage reel clutch. Start the engine, and operate at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.

NOTICE

The traction drum will rotate with engine running at 1/2 throttle.

⚠ WARNING

Never operate the engine without proper ventilation. Exhaust fumes can be fatal if inhaled.

9.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information, contact your area Jacobsen Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	1. Choke in wrong position.	1. See Engine Manual.
	2. Empty fuel tank or dirty fuel.	2. Drain and refill fuel tank with fresh, clean fuel.
	3. Fuel Shut-off valve closed.	3. Open fuel shut-off valve.
	4. Engine / Spark Plug.	4. See Engine Manual.
	5. Engine switch off.	5. Turn engine switch to On.
Engine hard to start or runs poorly, looses power or stalls.	1. Choke in wrong position.	1. See Engine Manual.
	2. Dirty or incorrect fuel.	2. Refill with proper grade, clean fuel.
	3. Loose Wiring.	3. Check spark plug wire.
	4. Air intake plugged.	4. Clean air intake and air cleaner.
	5. Vent in fuel cap plugged.	5. Clean fuel cap.
Mower does not react to O.P.C. Lever.	1. Parking brake engaged.	1. Disengage parking brake.
	2. Traction clutch disengaged.	2. Engage traction clutch.
	3. Reel clutch disengaged.	3. Engage reel clutch.
	4. Broken Belt.	4. Check and replace belts as needed.
Reels do not cut, or cut unevenly.	1. Reel to bedknife not adjusted.	1. Adjust Reel to Bedknife.
	2. Reel clutch disengaged.	2. Engage reel clutch.

10 MAINTENANCE & LUBRICATION CHARTS

10.1 GENERAL

The mower was designed for minimum lubrication. Over greasing will produce high loads on the bearings and engine, thereby reducing the performance of the machine.

NOTICE

All maintenance intervals must be performed more frequently when operating in extremely dusty conditions.

⚠ WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine, and disconnect spark plug wire to prevent injuries.

1. Always clean grease fittings before and after lubrication.
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun, and fill slowly until grease begins to seep out. Do not use compressed air.
3. For smooth operation of pivot points and other friction points, apply several drops of SAE 30 oil every 50 hours or as required.
4. To lubricate points **(L_6 and L_7)**, remove left transport wheel.

   Remove nut **(A)** from end of shaft and pull wheel hub **(D)** off. Remove collar **(B)** and bushing **(C)** then pack bearing **(L_7)** with lithium grease.

   Remove mounting bracket **(E)** to gain access to fitting **(L_6)**. Turn the traction drum if pulley **(F)** is blocking the fitting then insert grease gun through hole and carefully apply grease.
5. To lubricate point **(L_{10})**, remove cover **(G)** and apply one pump of grease to fitting on end of shaft.

10.2 MAINTENANCE CHART

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 20 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Yearly	Lubricant Type
Air Cleaner	I		C				
Combustion Chamber					C		
Engine Oil	I	R*		R			I
Fuel Line						R - 2yrs	
Fuel Strainer				C			
Spark Plug				A/R			
Valve Clearance					A		
Grease Locations							
L_1 - L_4		L				L	II
L_5 - L_6						L	II
L_7			L			L	III
L_8 - L_9						L	III
L_{10}					L		II
L_{11}						L	II

A - Add or Adjust C - Clean I - Inspect L- Lubricate R - Replace AR - As Required

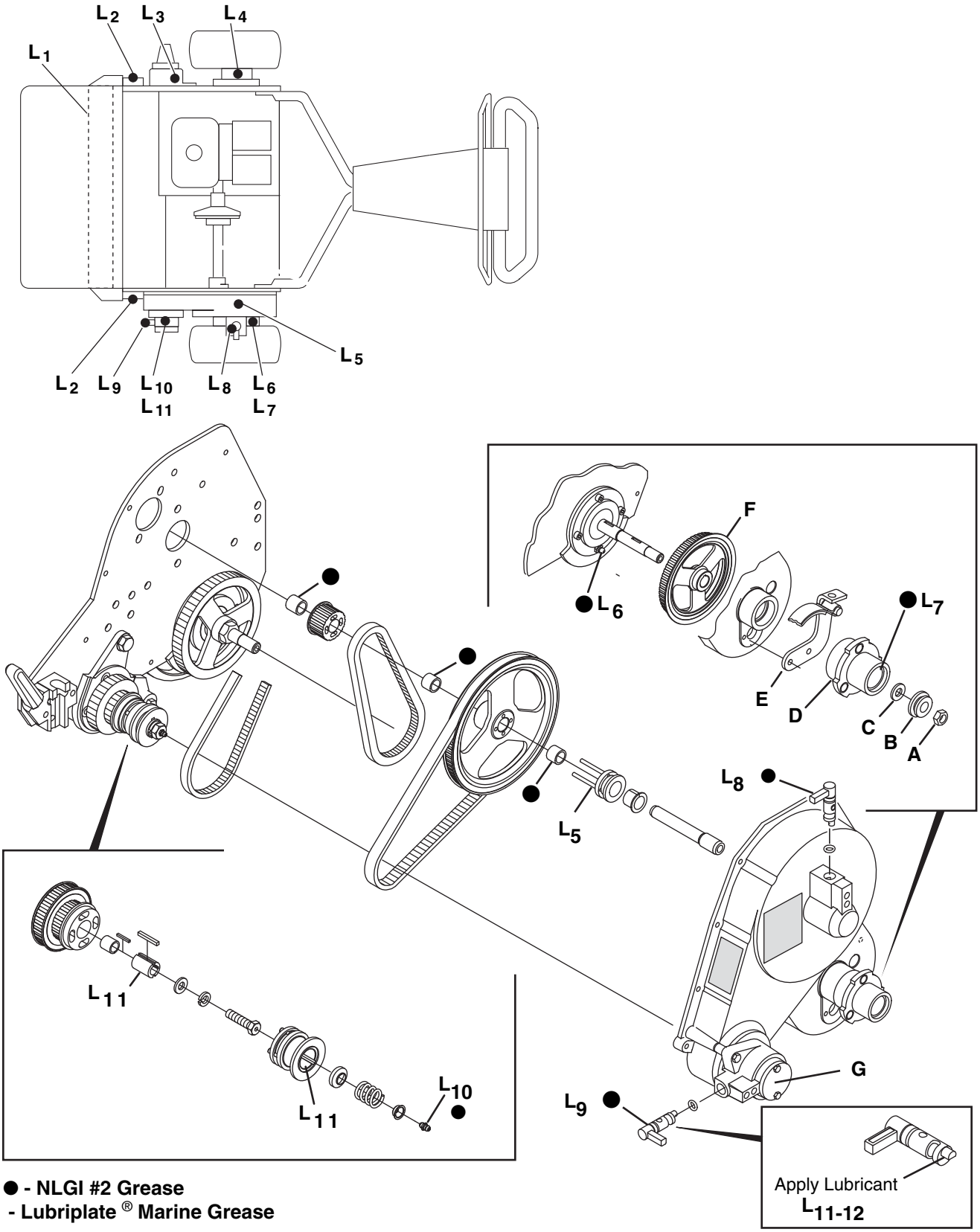
* Indicates initial service for new machines.

I Engine Oil - See Section 8.3

II Manual grease gun with NLGI Grade 2 (Service Class LB).

III Lubriplate® marine grease, Jacobsen Part No. 5001581

10.3 LUBRICATION CHART



● - NLGI #2 Grease
- Lubriplate ® Marine Grease

11 PARTS LIST

11.1 HOW TO USE THE PARTS CATALOG

Abbreviations

N/S - Not serviced separately, can only be obtained by ordering main component or kit.

AR -Variable quantity or measurement is required to obtain correct adjustment.

Symbols such as ●, next to the item number, indicate that a note exists which contain additional information important in ordering that part.

Indented Items

Indented items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separately or as part of the main component.

Item	Part No.	Qty	Description	Serial Numbers/Notes
● 1	123456	1	Mount, Valve	*Indicates a piece part*
2	789012	1	Valve, Lift	*Includes Items 2 and 3*
3	345678	1	• Handle	*Serviced part included with Item 2*
4	N/S	1	• Seal Kit	*Non serviced part included with Item 2*
5	901234	1	Screw, 1/4-20 x 2” Hex Head	

11.2 TO ORDER PARTS

1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate of your product.
4. Order by the quantity desired, the part number, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Jacobsen Distributor.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

11.3 PARTS CATALOG TABLE OF CONTENTS

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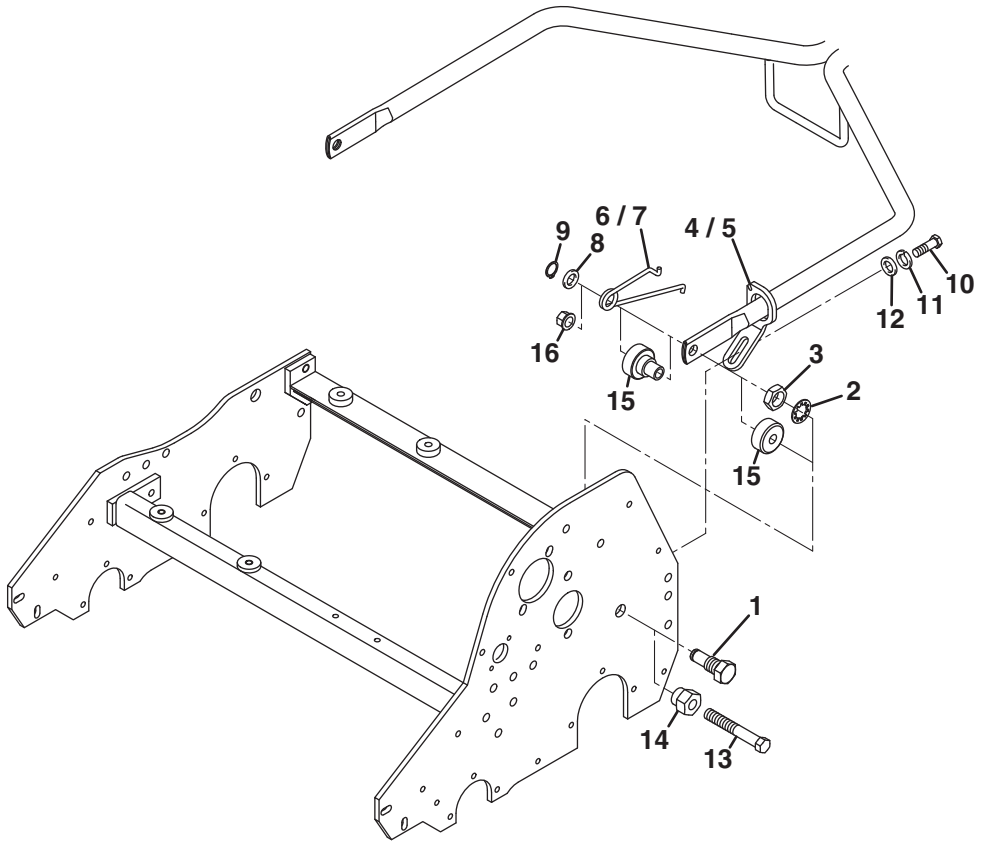
1.1 Handle Attachment

Serial No. All

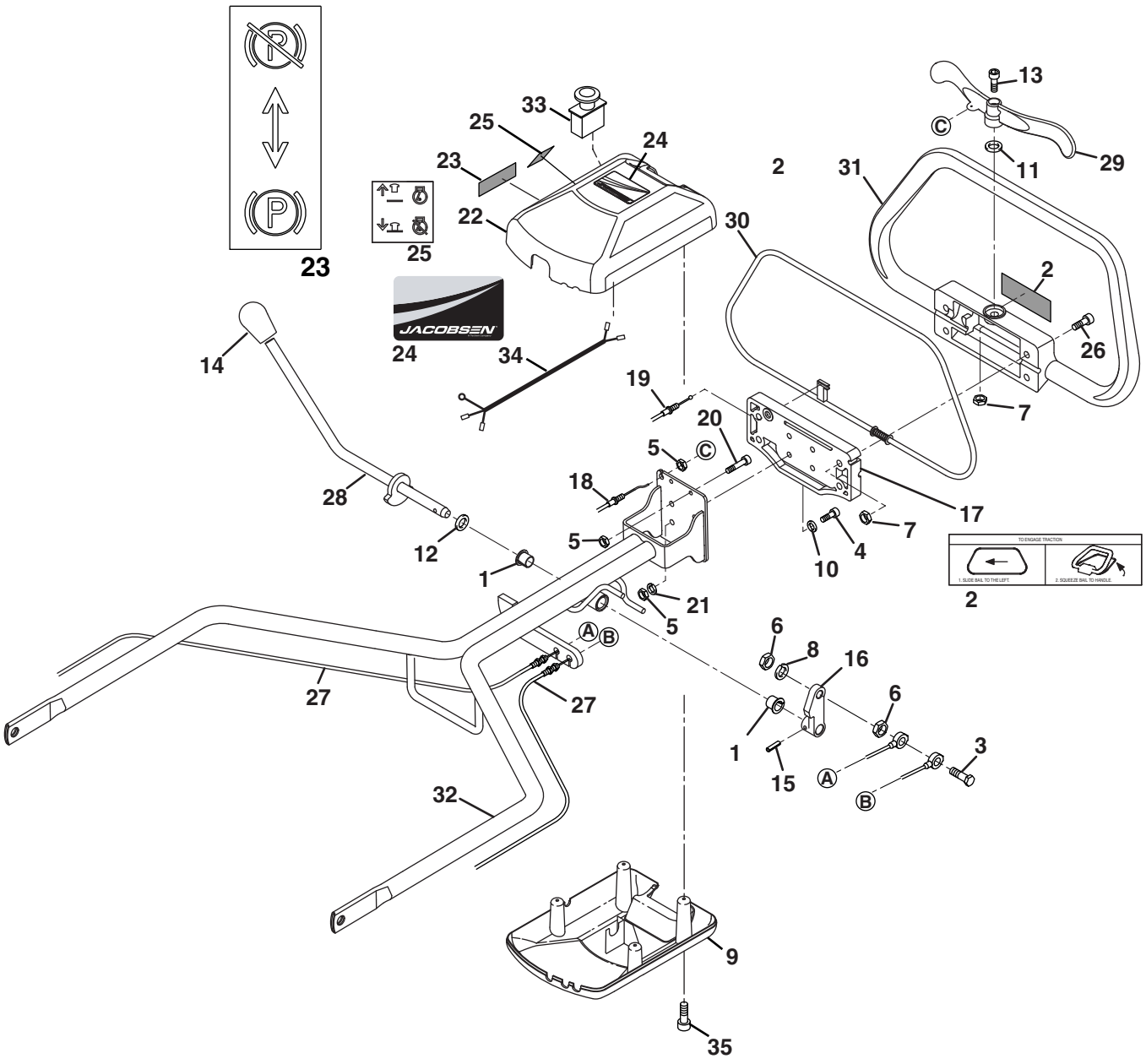


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811559	2	Bolt, Handle Mount	Used on All Except 63288
2	447224	2	Lockwasher, 5/8” Internal Tooth	Used on All Except 63288
3	443828	2	Nut, 5/8-18 Hex Jam	Used on All Except 63288
4	4172521	1	Right Side Handle Stop	
5	4172520	1	Left Side Handle Stop	
6	2809900	1	Left Side Torsion Spring	
7	2809901	1	Right Side Torsion Spring	
8	455012	2	Flat Washer, 3/4	Used on All Except 63288
9	458006	2	Retaining RIng, 1/2 Truarc	Used on All Except 63288
10	400262	2	Screw, 3/8-16 x 1” Hex Head	
11	446142	2	Lockwasher, 3/8 Heavy	
12	453011	2	Flat Washer, 3/8	
13	400274	2	Screw, 3/8-16 x 2-1/2” Hex Head	Used on 63288 Only
14	4293431	2	Bolt, 5/8 Special	Used on 63288 Only
15	4124806	2	Mount, Isolator	Used on 63288 Only
16	548804	2	Nut, 3/8-16 Hex Flange	Used on 63288 Only

> Change from previous revision

2.1 Handle and Controls

Serial No. All

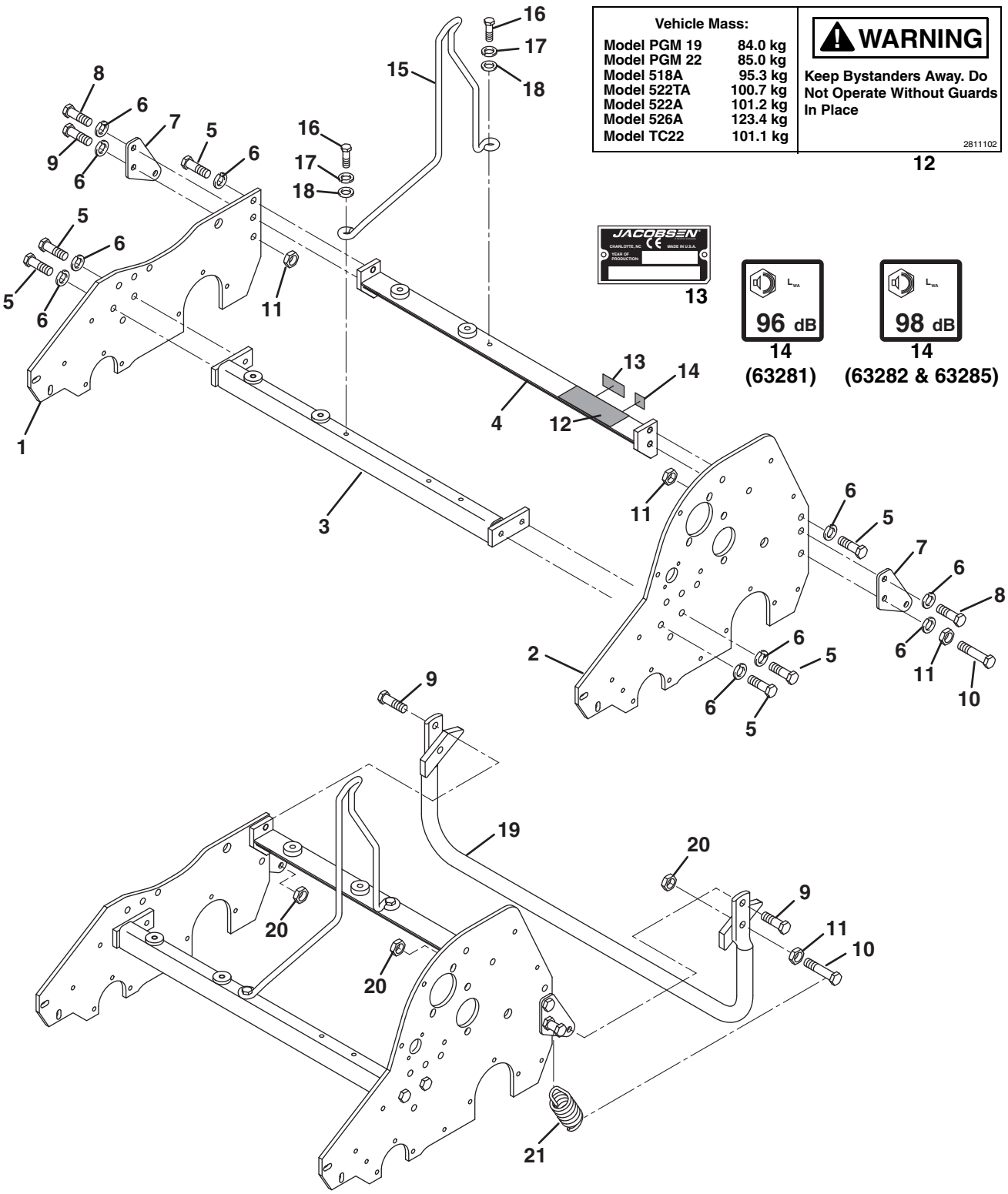


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	366708	2	Flanged Bearing	
2	4139678	1	Decal, Bail Operation	
3	400268	1	Screw, 3/8-16 x 1-3/4” Hex Head	
4	434029	4	Screw, 1/4-20 x 1” Socket Head	
5	443102	7	Nut, 1/4-20 Hex	
6	443110	2	Nut, 3/8-16 Hex	
7	444718	5	Locknut, 5/16-18 Center	
8	446142	1	Lockwasher, 3/8 Heavy	
9	4127051	1	Cover, Back	
10	453023	4	Flat Washer, 1/4	
11	454020	1	Washer, 1/2 Spring	
12	454025	AR	Washer, 1/2 Spring	
13	434032	1	Screw, 5/16-18 x 1-3/4” Socket Head	
14	4127340	1	Knob	
15	461181	1	Groove Pin, 3/16 x 3/4”	
16	2000067	1	Lever, Brake	
17	4136328	1	Plate, Tilt	
18	4130475	1	Cable, Paddle Throttle	See 6.1 for Engine Connection
19	4136550	1	Cable, Bail Throttle	See 6.1 for Engine Connection
20	434054	2	Screw, 1/4-20 x 1-3/4 Socket Head	
21	446130	4	Lockwasher, 1/4 Heavy	
22	4147697	1	Cover, Front	
23	3002753	1	• Decal, Parking Brake	
24	4182386	1	• Decal, Jacobsen Emblem	
25	4147495	1	• Decal, E-Stop	
26	4128933	4	Screw, 5/16-18 x 1-1/2” Socket Head	
27	4130762	2	Brake Cable	
28	4131414	1	Lever, Brake	
29	4136323	1	Plate, Throttle	
30	4136325	1	Bail Lever	
31	4147696	1	Handle, Overmolded	
32	4130460	1	Handle, 518	Used on 63281 only
32	4130464	1	Handle, 522	Used on 63282 Only
32	4130468	1	Handle, 526	Used on 63285 only
33	4147835	1	E-Stop Switch	
34	4147215	1	Harness, E-Stop	
35	4128662	4	Screw, #10-32 x 3/8” Socket Head	

> Change from previous revision

3.1 Frame Assembly

Serial No. All

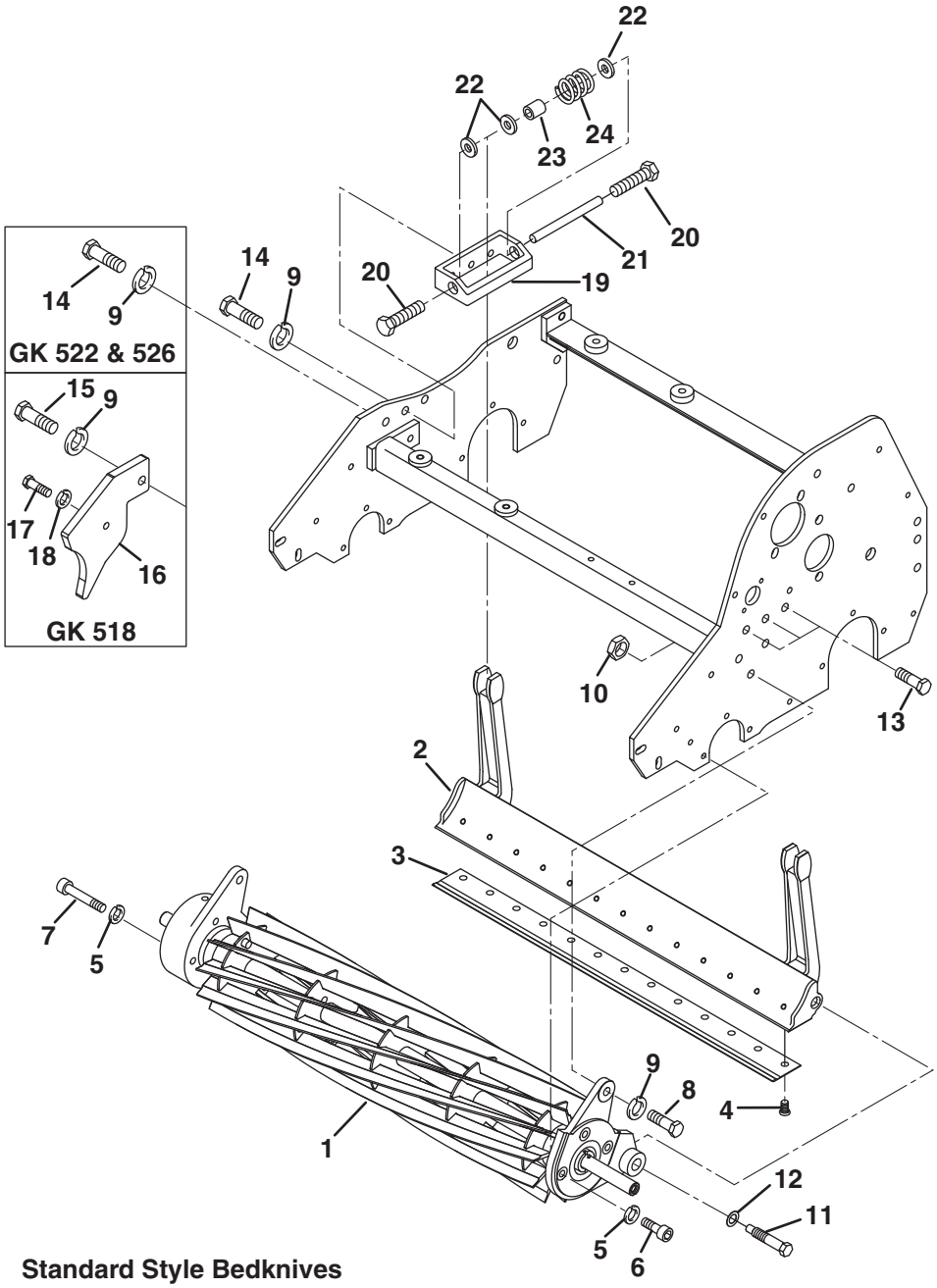


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2811122	1	Frame, R.H. Side	
2	2811121	1	Frame, L.H. Side	
3	1000022	1	518 Front Crossbar	Used on 63281 Only
3	1000839	1	522 Front Crossbar	Used on 63282 Only
3	1000023	1	526 Front Crossbar	Used on 63285 Only
4	1000020	1	518 Rear Crossbar	Used on 63281 Only
4	1000838	1	522 Rear Crossbar	Used on 63282 Only
4	1000021	1	526 Rear Crossbar	Used on 63285 Only
5	400258	6	Screw, 3/8-16 x 3/4” Hex Head	
6	446142	10	Lockwasher, 3/8 Heavy	
7	366796	2	Kickstand, Mounting Bracket	
8	400262	2	Screw, 3/8-16 x 1” Hex Head	
9	400260	3	Screw, 3/8-16 x 7/8” Hex Head	
10	400268	2	Screw, 3/8-16 x 1-3/4” Hex Head	
11	443810	4	Nut, 3/8-16 Hex Jam	
12	2811102	1	Decal, Warning	
13	REF	1	Serial Plate	
14	4117466	1	Decal, 96 db Noise	Used on 63281 Only
14	4131528	1	Decal, 98 db Noise	Used on 63282, 63285 Only
15	3006118	1	Hook, Lift	
16	400188	2	Screw, 5/16-18 x 1” Hex Head	
17	446136	2	Lockwasher, 5/16 Heavy	
18	364441	2	Spacer	
19	1000018	1	518 Kickstand	Used on 63281 Only
19	132674	1	522 Kickstand	Used on 63282 Only
19	1000019	1	526 Kickstand	Used on 63285 Only
20	444850	3	Nut, 3/8-16 Center Lock Jam	
21	364164	1	Spring	

> Change from previous revision

4.1 Lower Unit

Serial No. All



Standard Style Bedknives (Secured with screws)

Part Number	Description
5000098	18” Low Profile
5002888	18” Super Tournament
503478	22” Low Profile
503477	22” High Profile
5002887	22” Super Tournament
5000141	26” Heavy Section

Optional MagKnife Bedknives

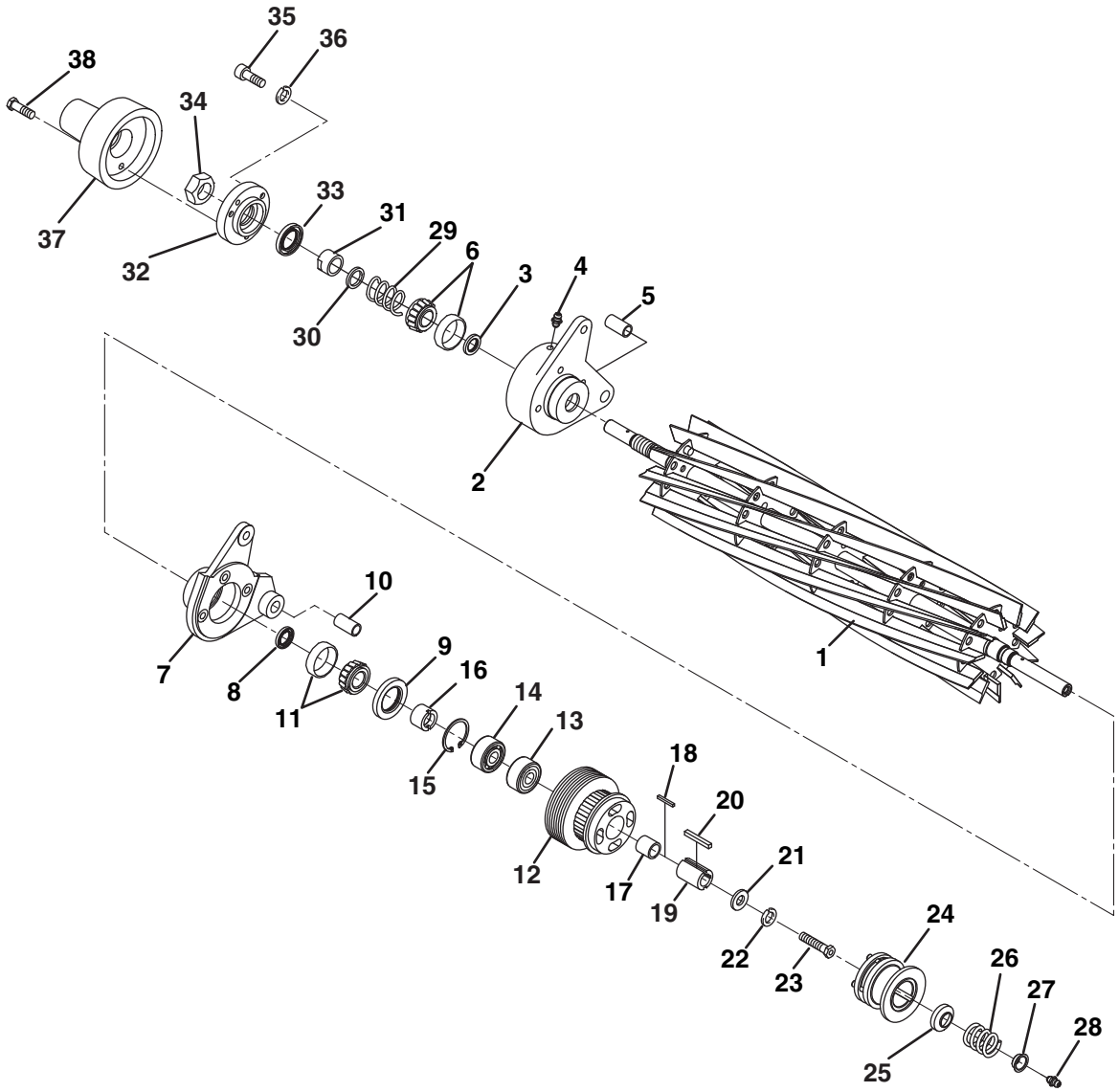
Part Number	Description
4131371	18” Low Profile
4131004	18” Super Tournament
4131001	22” Low Profile
4131369	22” High Profile
4131370	22” Super Tournament
4131005	22” Medium Section
4131008	26” Heavy Section
4131002	26” Low Profile
4131374	26” High Profile

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Reel Assembly	See 5.1
2	5000102	1	Bedknife Backing, 518 Standard	Standard
2	4130295	1	Bedknife Backing, 518 Magknife	Magknife Option
2	5000457	1	Bedknife Backing, 522 Standard	Standard
2	4130281	1	Bedknife Backing, 522 Magknife	Magknife Option
2	5000412	1	Bedknife Backing, 526 Standard	Standard
2	4130286	1	Bedknife Backing, 526 Magknife	Magknife Option
3	REF	1	Bedknife	See Chart
4	3009138	AR	Screw, 1/4-20 x 3/4 Soc. Hd.	
5	446136	6	Lockwasher, 5/16 Heavy	
6	434051	3	Screw, 5/16-18 x 1/2” Socket Head	
7	434036	3	Screw, 5/16-18 x 1-1/4” Socket Hd.	
8	400264	2	Screw, 3/8-16 x 1-1/4 Hex Head	
9	446142	5	Lockwasher, 3/8 Heavy	
10	443110	2	Nut, 3/8-16 Hex	
11	365501	2	Bolt, Bedknife Shoe	
12	454017	2	Shim, Bedknife Shoe	
13	400256	3	Screw, 3/8-16 x 5/8” Hex Head	
14	400258	2	Screw, 3/8-16 x 3/4” Hex Head	63281
14	400258	3	Screw, 3/8-16 x 3/4” Hex Head	63282 and 63285
15	400264	1	Screw, 3/8-16 x 1-1/4” Hex Head	Used on 63281 Only
16	3001644	1	Weight	Used on 63281 Only
17	400114	1	Screw, 1/4-20 x 1-1/4” Hex Head	Used on 63281 Only
18	446130	1	Lockwasher, 1/4 Heavy	Used on 63281 Only
19	3001600	2	Bedknife Block	
20	366726	4	Bolt, Special	
21	366727	2	Rod	
22	366653	6	Spacer	
23	367512	2	Spacer	
24	366709	2	Spring	

> Change from previous revision

5.1 Reel

Serial No. All

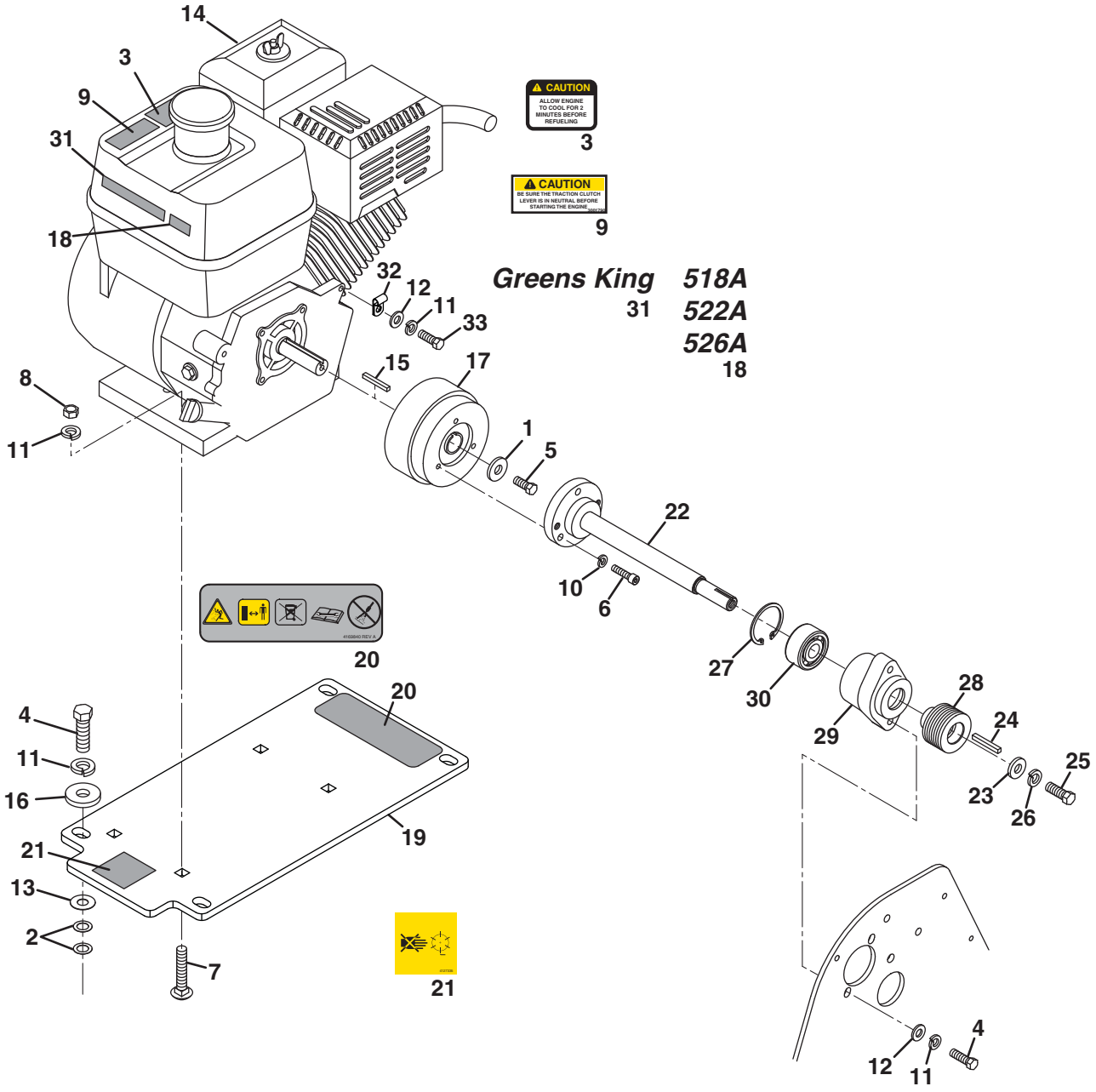


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5000095	1	Reel, 18” 11 Blade	
1	4284061	1	Reel, 18” 15 Blade	
1	5000148	1	Reel, 22” 11 Blade	
1	4284069	1	Reel, 22” 15 Blade	
1	5003652	1	Reel, 26” 7 Blade	
2	4179720	1	Bearing Housing	
3	366650	1	• Seal	
4	4128725	1	• Grease Fitting	
5	545940	1	• Bushing	
6	500534	1	• Bearing Cup and Cone	
7	1000446	1	Bearing Housing	
8	366650	1	• Grease Seal	
9	366649	1	• Grease Seal	
10	545940	1	• Bushing	
11	500534	1	• Bearing Cup and Cone	
12	2811185	1	Pulley	
13	365229	1	• Bearing With Seal	
14	366652	1	• Bearing	
15	458461	1	• Snap Ring	
16	366645	1	Spacer	
17	366646	1	Spacer	
18	345556	1	Key, 1/8 Square x 1”	
19	340462	1	Spacer	
20	320774	2	Key, 3/16 Square x 1-1/4”	
21	366653	1	Washer	
22	446142	1	Lockwasher, 3/8 Heavy	
23	366651	1	Bolt	
24	5002727	1	Reel Clutch	
25	3004368	1	Spring Retainer	
26	3006061	1	Spring	
27	3004369	1	Spring Retainer	
28	471217	1	Grease Fitting	
29	363047	1	Spring	
30	304745	1	Washer	
31	364900	1	Nut	
32	164041	1	Seal Carrier	
33	366648	1	• Grease Seal	
34	367029	1	Nut, 3/4-16 Hex Nylock Jam	
35	434028	3	Screw, 1/4-20 x 3/4” Socket Head	
36	446130	3	Lockwasher, 1/4 Heavy	
37	4136845	1	Cover	
38	2811566	2	Screw, 1/4-20 x 12” Socket Head	

> Change from previous revision

6.1 Engine and Clutch

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	303873	1	Washer	
2	348849	AR	Shim, 0.01”	
3	362764	1	Decal, Refueling Caution	
4	400188	6	Screw, 5/16-18 x 1” Hex Head	
5	306369	1	Screw, 5/16-24 x 3/4” Hex Head	
6	434029	3	Screw, 1/4-20 x 1” Socket Head	
7	441677	4	Carriage Bolt, 5/16-18 x 1-1/2”	
8	443106	4	Nut, 5/16-18 Hex	
9	3001790	1	Decal, Caution	
10	446130	3	Lockwasher, 1/4 Heavy	
11	446136	9	Lockwasher, 5/16 Heavy	
12	453009	3	Flat Washer, 5/16	
13	3005515	AR	Shim, 0.02”	
14	503532	1	Engine, 4HP Honda	
15	320774	1	• Key, 3/16 x1-1/2” Square	
16	364441	4	Spacer	
17	4135990	1	Torque Clutch	Engages at 2000 RPM
18	4125686	1	Decal, 518A	
18	4125687	1	Decal, 522A	
18	4125689	1	Decal, 526A	
19	4251117	1	Engine Base	Includes Decals
20	4169840	1	• Decal, Spanish	
21	4127335	1	• Decal, Danger	
22	4245697	1	Clutch Shaft, 518	Used on 63281 only
22	4245698	1	Clutch Shaft, 522	Used on 63282 Only
22	4245696	1	Clutch Shaft, 526	Used on 63285 only
23	366653	1	Spacer	
24	367082	1	Key,	
25	400262	1	Screw, 3/8-16 x 1” Hex Head	
26	446142	1	Lockwasher, 3/8 Heavy	
27	458113	1	Snap Ring	
28	3007847	1	Pulley	
29	4137242	1	Housing, Bearing	
30	4137243	1	Bearing	
31	4125694	1	Decal, Greens King	
32	3003773	1	Clamp	
33	306369	4	Screw, 5/16-24 x 1” Hex Head	

> Change from previous revision

7.1 Engine Throttle and Clutch Cover

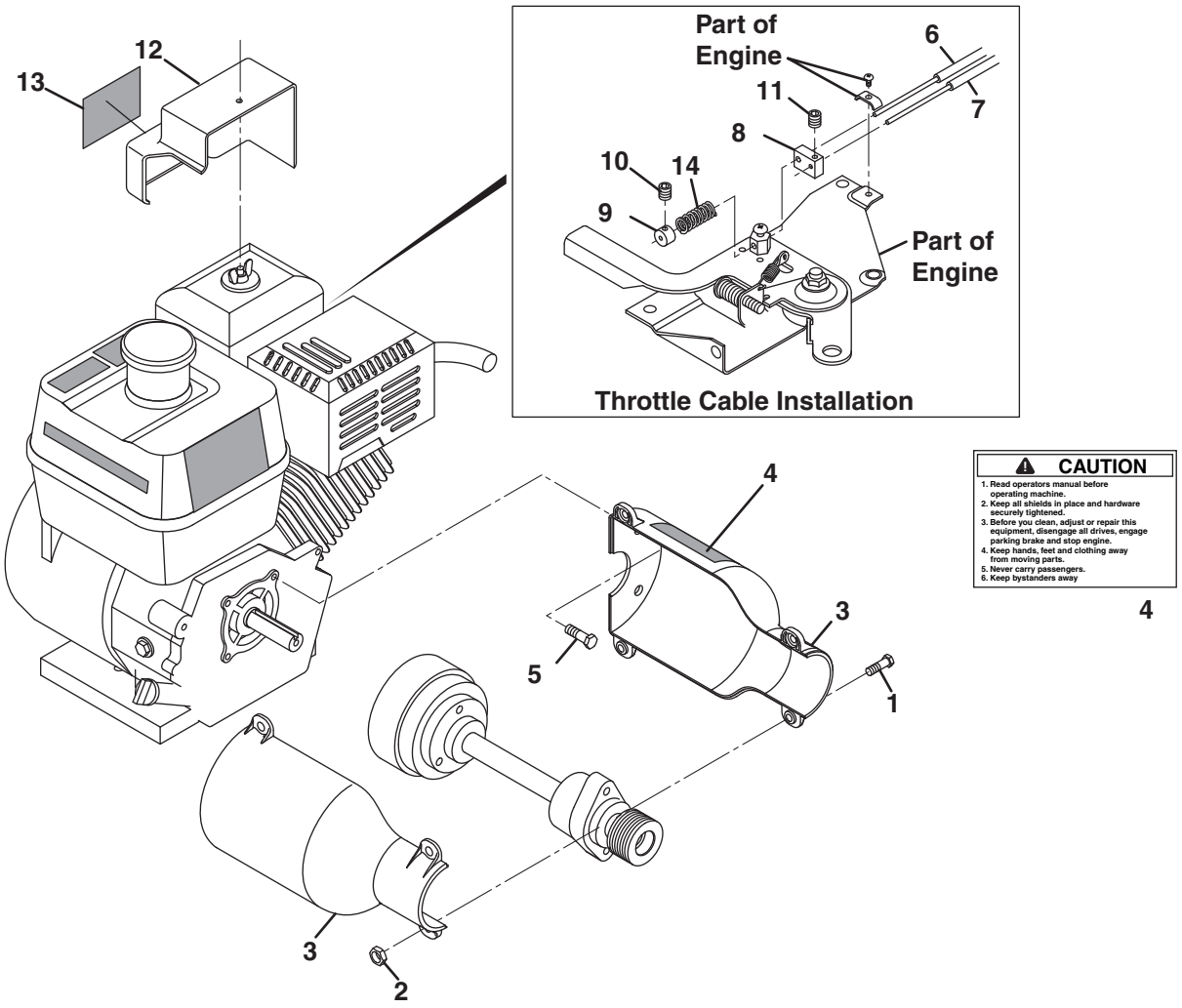
Serial No. All

WARNING

TO PREVENT INJURY AND ACCIDENTAL CLUTCH ENGAGEMENT DO NOT ADJUST ENGINE SPEED USING THROTTLE LEVER ON ENGINE. ALWAYS ADJUST ENGINE SPEED USING THE OPC HANDLE AND THROTTLE PADDLE

4146636

13

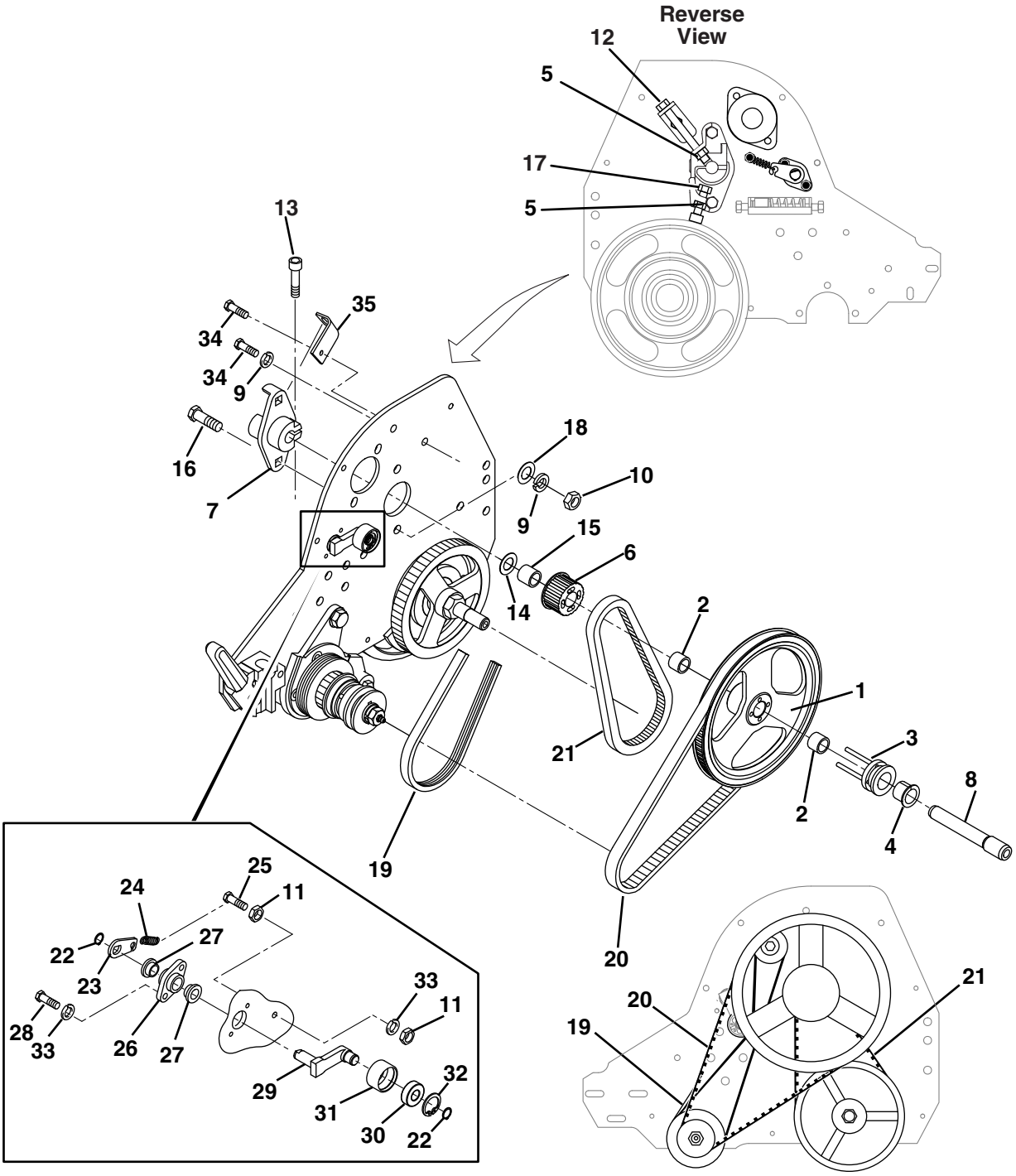


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	400108	4	Screw, 1/4-20 x 3/4” Hex Head	
2	444708	4	Locknut, 1/4-20 Center	
3	4148537	1	Cover, 18” Clutch	Used on 518, Includes Decal
3	4148538	1	Cover, 22” Clutch	Used on 522, Includes Decal
3	4147698	1	Cover, 26” Clutch	Used on 526, Includes Decal
4	361854	1	• Decal, Warning	
5	400218	2	Screw, 5/16-24 x 1/2” Hex Head	
6	REF	1	Cable, Paddle Throttle	See 2.1
7	REF	1	Cable, Bail Throttle	See 2.1
8	4136549	1	Guide, Cable	
9	4136554	1	Collar, Cable Stop	
10	4137299	1	• Set Screw, #6-32	
11	4137299	1	Set Screw, #6-32 x 3/16” Cup	
12	4147695	1	Throttle Cover	
13	4146636	1	• Decal, Throttle Warning	
14	4108643	1	Spring, Throttle Plate	

> Change from previous revision

8.1 Belts

Serial No. All



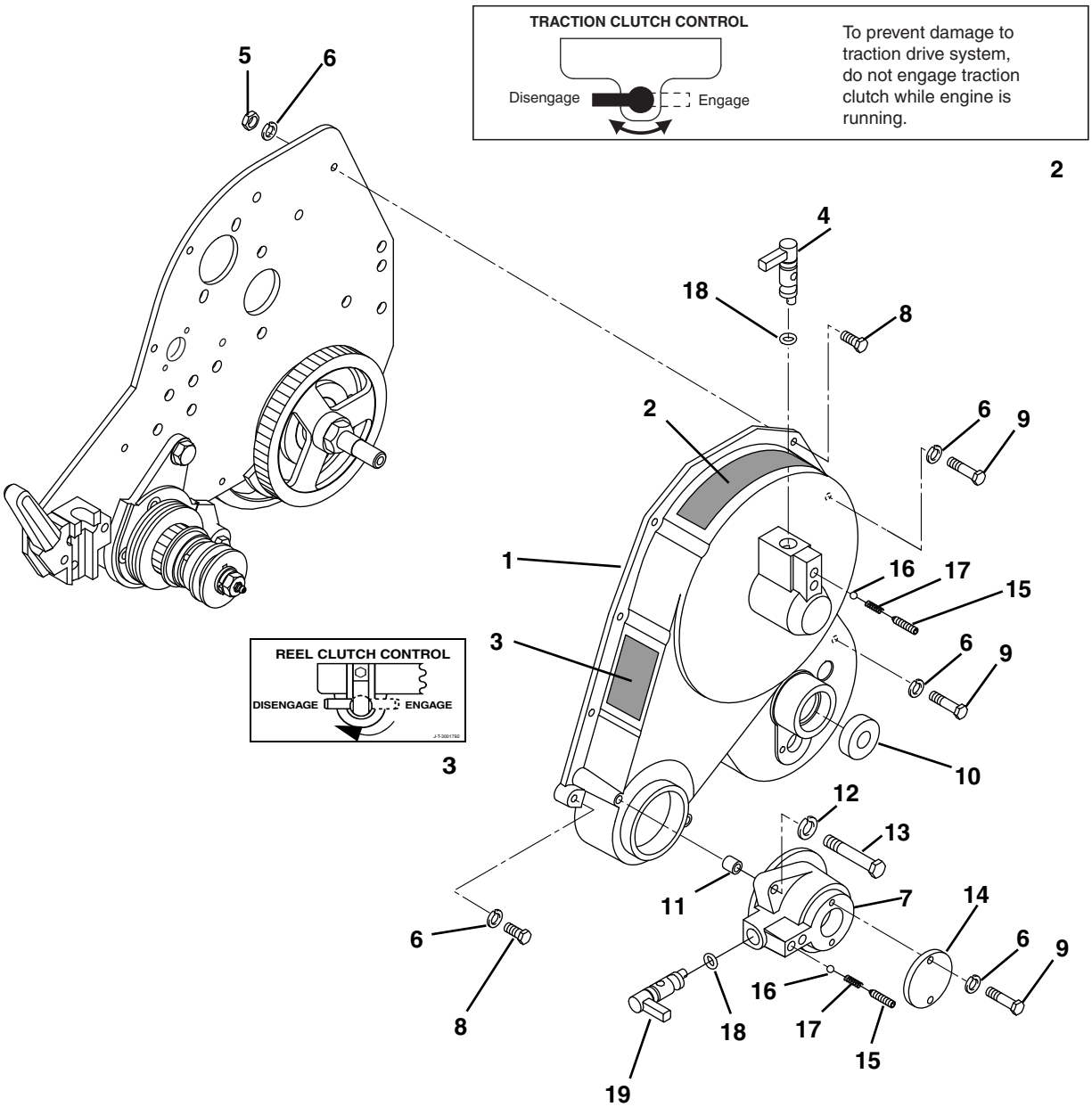
Belts View

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	503685	1	Pulley, 80 Tooth	
2	367554	2	• Needle Bearing	
3	1000056	1	Traction Clutch	
4	366725	1	Flanged Bushing	
5	443106	2	Nut, 5/16-18 Hex	
6	5002447	1	Pulley, 18 Tooth	
7	2000148	1	Bearing Bracket	
8	3001273	1	Shaft	
9	446142	3	Lockwasher, 3/8 Heavy	
10	443110	2	Nut, 3/8-16 Hex	
11	443102	7	Nut, 1/4-20 Hex	
12	2500485	1	Screw, 5/16-18 x 3-1/4” Hex Head	
13	434031	1	Screw, 1/4-20 x 3/4” Socket Head	
14	359864	AR	Washer	
15	367553	1	Needle Bearing	
16	400262	2	Bolt, 3/8-16 x 1”	
17	400188	1	Screw, 5/16-18 x 1” Hex Head	
18	453011	2	Washer	
19	2810713	1	Belt, 7 Rib Micro V	
20	2811363	1	Belt, 112 Tooth	
21	2811071	1	Belt, 80 Tooth	
22	458006	2	Retaining Ring	
23	4141840	1	Bracket, Idler Spring	
24	4141839	1	Spring, Idler	
25	400116	1	Screw, 1/4-20 x 1-1/2” hex Head	
26	4130965	1	Bracket, Idler	
27	352936	2	Bushing	
28	400106	2	Screw, 1/4-20 x 5/8” Hex Head	
29	4152797	1	Arm, Idler	
30	344545	1	Bearing	
31	2809666	1	Pulley, Idler	
32	458105	1	Retaining Ring	
33	446128	2	Lockwasher, 1/4	
34	400254	2	Screw, 3/8-16 x 1/2” Hex Head	
35	3009434	1	Bracket, Belt Adjusting	

> Change from previous revision

9.1 Belt Cover

Serial No. All

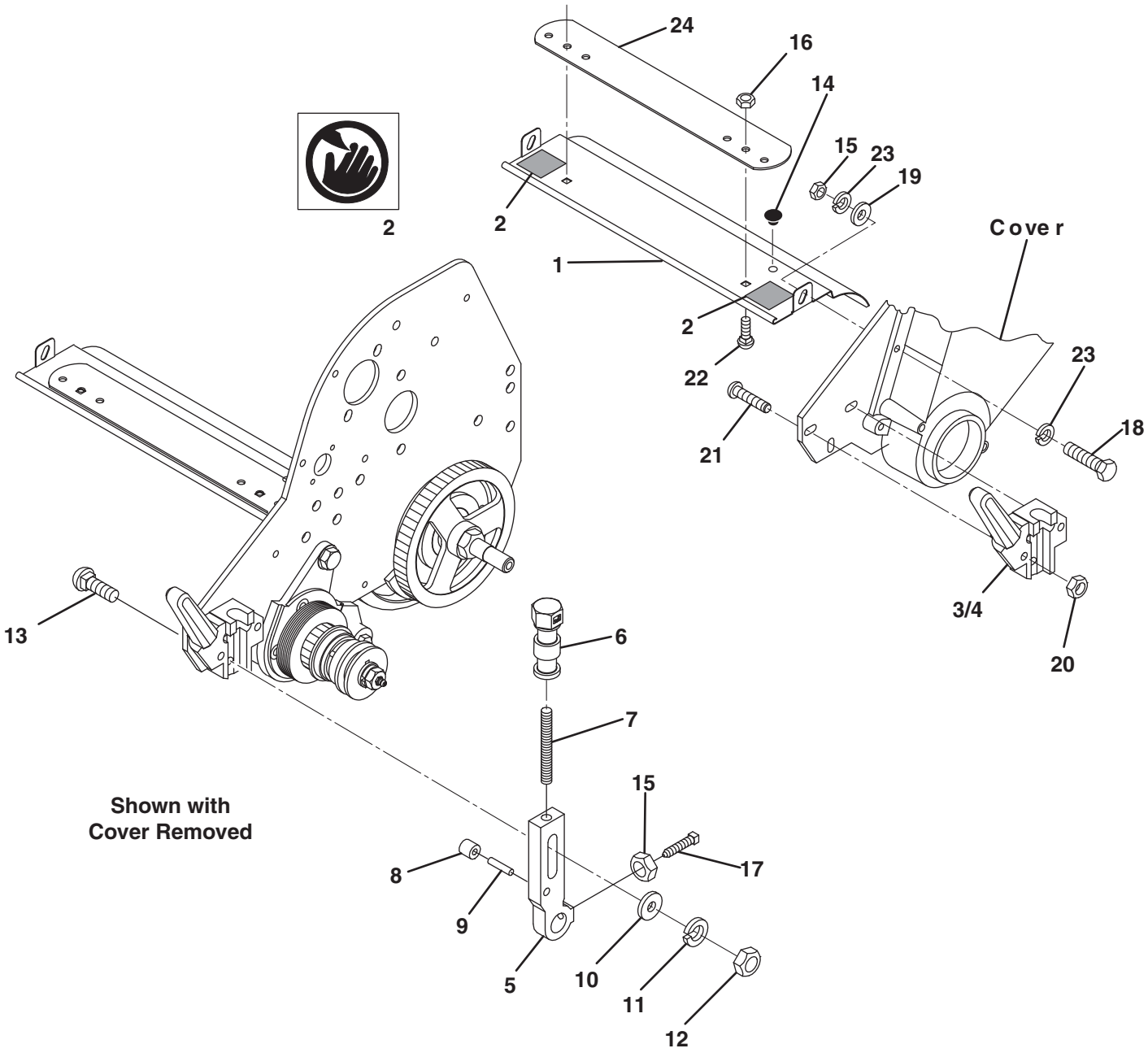


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	503638	1	Belt Cover	
2	2811092	1	• Decal, Warning	
3	3001792	1	• Decal, Reel Clutch	
4	3000660	1	Traction Clutch Lever	
5	443102	3	Nut, 1/4-20 Hex	
6	446130	12	Lockwasher, 1/4 Heavy	
7	220317	1	Shifter Housing	
8	400112	4	Screw, 1/4-20 x 1-1/4” Hex Head	
9	400106	5	Screw, 1/4-20 x 5/8” Hex Head	
10	366707	1	Ball Bearing	
11	366715	2	Spacer	
12	446136	2	Lockwasher, 5/16 Heavy	
13	400196	2	Screw, 5/16-18 x 2” Hex Head	
14	366710	1	Cover	
15	422522	4	Set Screw, 3/8-16 x 1/2” Socket Hd.	
16	343850	4	Ball, 1/4” Diameter	
17	343848	2	Spring	
18	339910	2	“O”Ring	
19	3004402	1	Shifter Shaft	

> Change from previous revision

10.1 Weight Bars and Roller Brackets

Serial No. All

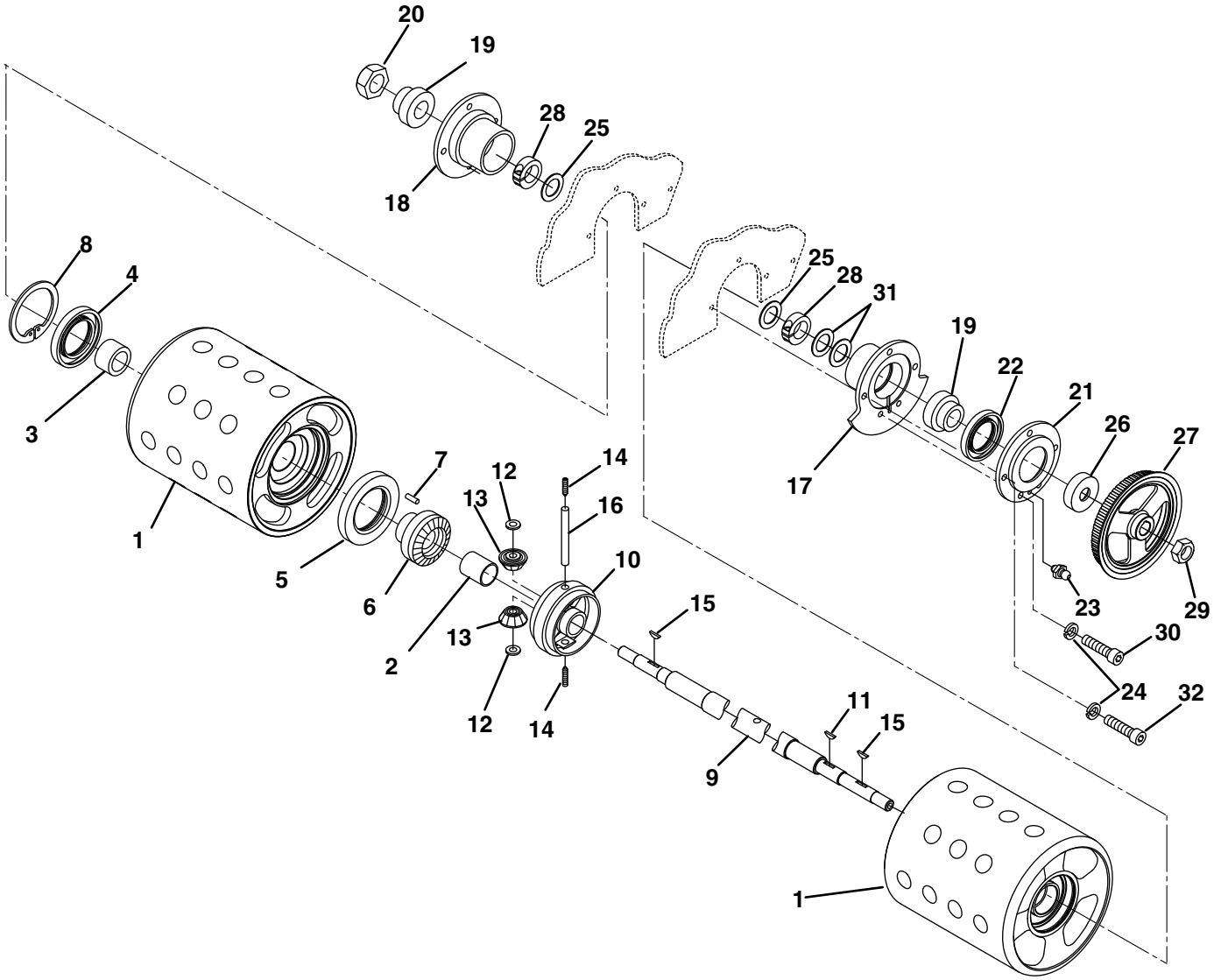


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4139661	1	Grass Shield (518A)	Used on 63281 Only
1	4139660	1	Grass Shield (522A)	Used on 63282 Only
1	4139662	1	Grass Shield (526A)	Used on 63285 Only
2	4127335	2	• Decal, Danger	
3	241827	1	L.H. Catcher Mounting Bracket	
4	241828	1	R.H. Catcher Mounting Bracket	
5	2000072	2	Roller Bracket	
5	2000040	2	Roller Bracket	Used on 63285 Only
6	3005692	2	Adjuster Knob	
7	343616	2	Stud	
8	366852	2	Spacer	
9	461339	2	Pin, 1/4 x 1-1/4”	
10	364441	2	Washer	
11	446136	2	Lockwasher, 5/16 Heavy	
12	443106	2	Nut, 5/16-18 Hex	
13	441674	2	Carriage Bolt 5/16-18 x 1-3/4”	
14	3008974	4	Grommet	
15	443102	4	Nut, 1/4-20 Hex	
16	445781	2	Nut, 5/16-18 Whiz Lock	
17	352737	2	Screw, 1/4-20 x 7/8” Square Head	
18	400112	2	Screw, 1/4-20 x 1-1/4” Hex Head	
19	453023	2	Flat Washer	
20	444718	4	Locknut, 5/16-18 Center	
21	441677	4	Carriage Bolt, 5/16-18 x 1-1/4”	
22	441614	2	Carriage Bolt, 5/16-18 x 1”	
23	446130	2	Lockwasher, 1/4 Heavy	
24	3000053	2	Plate	
25	68122	1	518 Grass Catcher	
25	68123	1	522 Grass Catcher	
25	68124	1	526 Grass Catcher	

> Change from previous revision

11.1 Differential and Rollers

Serial No. All

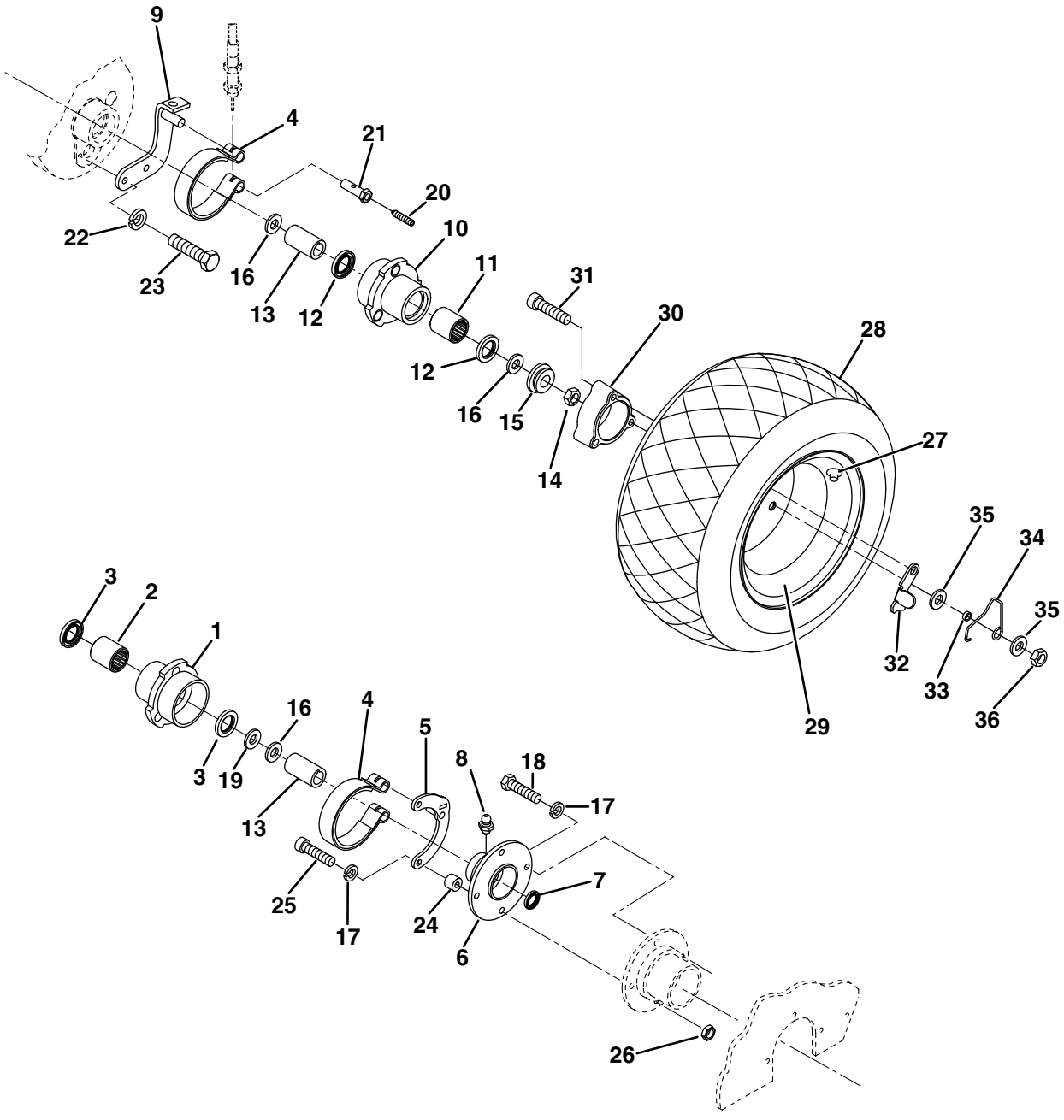


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000024	2	Smooth Roller (518)	
1	132655	2	Smooth Roller (522)	
1	1000027	2	Dimpled Roller (526)	
2	366699	1	• Differential Gear Bushing	
3	366698	1	• Drum Bushing	
4	366701	1	• Grease Seal	
5	366700	1	• Grease Seal	
6	241836	1	• Differential Gear	
7	319085	1	• Pin	
8	458127	1	• Snap Ring	
9	395419	1	Roller Shaft (518)	
9	395367	1	Roller Shaft (522)	
9	395418	1	Roller Shaft (526)	
10	241835	1	Differential	
11	463017	1	Key, #9 Woodruff	
12	308030	2	Thrust Washer	
13	202947	2	Pinion Gear	
14	415563	2	Set Screw, 7/16-20 x 3/8”	
15	463007	2	Key, #7 Wooodruff	
16	308028	1	Pinion Shaft	
17	220318	1	Bearing Housing	
18	220319	1	Bearing Housing	
19	366693	2	Bearing	
20	2810096	1	Nut, 1-14 Nylock Hex	
21	164057	1	Seal Cover	
22	366702	1	• Grease Seal	
23	471214	1	• Grease Fitting	
24	446136	5	Lockwasher,5/16 Heavy	
25	366697	2	Spacer	
26	366696	1	Spacer	
27	3004484	1	Pulley, 56 Tooth	
28	366695	2	Locking Collar	
29	367029	1	Nut, 3/4-16 Hex Nylock Jam	
30	434024	2	Screw, 5/16-18 x 3/4” Socket Hd	
31	361451	2	Washer	
32	434004	3	Screw, 5/16-18 x 1-3/4” Soc Hd	

> Change from previous revision

12.1 Parking Brake and Wheels

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000476	1	R.H. Hub	
2	338766	1	• Bearing	
3	366705	2	• Grease Seal	
4	164056	2	Brake Band	
5	132663	1	Brake Mounting Bracket	
6	132658	1	Seal Housing	
7	365753	1	• Grease Seal	
8	4128725	1	• Grease Fitting	
9	164063	1	Brake Mounting Bracket	
10	1000477	1	L.H. Hub	
11	338766	1	• Bearing	
12	366705	2	• Grease Seal	
13	366717	2	Clutch Sleeve	
14	445801	2	Nut, 5/8-18 Hex Jam Lock	
15	366718	2	Latching Collar	
16	366697	4	Bushing	
17	446136	4	Lockwasher, 5/16 Heavy	
18	400188	2	Screw, 5/16-18 x 1” Hex Head	
19	361451	1	Washer	Left Side Only
20	415513	2	Set Screw, 1/4-20 x 1/2”	
21	366742	2	Brake Band Pin	
22	446130	2	Lockwasher, 1/4 Heavy	
23	400108	2	Screw, 1/4-20 x 3/4” Hex Head	
24	366737	2	Spacer	
25	434032	2	Screw, 5/16-18 x 1-3/4” Socket Head	
26	443106	1	Nut, 5/16-18 Hex	
	62293	1	Pneumatic Transport Tire Kit	Optional Accessory
27	360111	2	• Valve	
28	4256477	2	• Tire, 11 x 4 - 5	
29	4256478	2	• Wheel Rim, 5 x 3	
30	271920	2	• Wheel Spacer	
31	434049	6	• Screw, 5/16-18 x 2” Socket Head	
32	366719	2	• Latch	
33	366716	6	• Spacer	
34	366704	2	• Spring	
35	453009	12	• Flat Washer, 5/16	
36	444718	6	• Locknut, 5/16-18 Center	

> Change from previous revision

1000018.....37
1000019.....37
1000020.....37
1000021.....37
1000022.....37
1000023.....37
1000024.....53
1000027.....53
1000056.....47
1000446.....41
1000476.....55
1000477.....55
1000838.....37
1000839.....37
132655.....53
132658.....55
132663.....55
132674.....37
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2000072.....51
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3005692.....51
3006061.....41
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3007847.....43
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